

KRYSTALLOGRAPHISCHE
WINKELTABELLEN

VON

DR. VICTOR GOLDSCHMIDT.



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Einleitung.

Es wurde dem Index der Krystallformen des Verfassers der Vorwurf gemacht, er sei unvollständig, da dem Formenverzeichniss die Winkeltabellen fehlen. Der berechtigte Wunsch, vollständige Winkeltabellen für die Gesamtheit der beobachteten Formen der Mineralien zu besitzen, war aber nicht erfüllbar wegen der Grösse der Aufgabe. Erst die zweikreisige Messung rückte die Ausführung in das Gebiet der Möglichkeit.

Bisher bestand eine Winkeltabelle aus dem Verzeichniss der Winkel von Fläche zu Fläche. Sollte sie vollständig sein, so hätte sie die Winkel aller Einzelflächen zu allen andern in allen möglichen Combinationen zu enthalten. Das sind für eine Combination von n Flächen $n(n-1)$ Winkel. Die Zahl der zwischen den Flächen der beobachteten Formen auftretenden Winkel ist aber so ungeheuer, dass auch die ausführlichsten Tabellen nur einige der wichtigsten Winkel aufnehmen konnten.

Anders gestaltete sich die Aufgabe bei Einführung des zweikreisigen Goniometers. Wir brauchen nicht mehr für jede Fläche die Winkel zu jeder andern, mit der sie möglicherweise in Combination auftreten könnte, sondern nur je 2 Winkel ($\varphi \rho$), die die Lage der Fläche gegen einen festgewählten Pol und ersten Meridian fixiren. Wir haben nicht mehr Flächenwinkel, sondern **Positionswinkel**.

Die Positionswinkel $\varphi \rho$ bilden den Inhalt dieser Tabellen. Aus weiter unten angeführten Gründen wurden 4 weitere Winkel $\xi_0 \eta_0 \xi \eta$ und 3 Coordinaten $x y d$ für jede Form zugefügt; ausserdem Krystallsystem und Elemente für jede Krystallart. Letzteres ist nöthig zur Fixirung der Orientirung durch Pol und ersten Meridian.

Die vorliegende Winkeltabelle ist die erste, die sich das Ziel steckt, ein Ganzes zu sein, d. h. die nach ihrem Sinn nöthigen Winkel gleichmässig für alle beobachteten Formen aller bekannten Mineralien zu geben.

Der Zweck der Winkeltabellen ist ein theoretischer und ein praktischer.

1. Theoretisch. Sie geben eine Uebersicht der bei Mineralien beobachteten Positionswinkel sowie der Coordinaten der Flächenpunkte, und dadurch ein Mittel, die in diesen Winkeln und Coordinaten sich aussprechenden Gesetzmässigkeiten zu erkennen und zu discutiren.

Manche Gesetze zeigen sich in den Elementen und Symbolen, wie sie der Index liefert, andere in den Coordinaten und Winkeln. Die Daten der Winkeltabelle haben den Vorzug, dass sie unabhängig sind vom Krystallsystem, überhaupt von jeder Deutung ausser der gewählten Orientirung. Sie sind ausserdem gleichmässig für alle Formen aller Arten gegeben und somit direct vergleichbar.

Die Willkür in der Aufstellung ist störend für den Vergleich. Sie ist theilweise aufgehoben durch die Symmetrie, die der Gewohnheit nach, eine bestimmte Orientirung vorschreibt. Sie stört wenig, wenn der Pol beibehalten ist. Das ist stets der Fall im tetragonalen und hexagonalen System, häufig bei den anderen Systemen. Dann bleiben die Poldistanzen ρd dieselben und alle φ ändern sich um den gleichen Winkel.

Der durch geänderte Aufstellung verursachten Störung wurde entgegengearbeitet durch Zufügung der Winkel $\xi, \eta, \xi\eta$ neben φ (vgl. unten).

2. Praktisch sollen die Tabellen ein Hilfsmittel bei der Messung, Berechnung, Zeichnung und Identification der Krystalle sein.

Sie gewähren die Möglichkeit, Krystallarten durch Gleichheit der Winkel zu identificiren, sowie für die beobachteten Formen aller bekannten Mineralien aus den Messungen ohne Rechnung das Symbol zu finden. Einem bestimmten φ einer Krystallart entspricht ein bestimmtes Symbol. Fehlt das gemessene φ in der Tabelle, so ist die Form neu. Die rechtwinkligen Parallel-Coordinaten $x y$, wie die Polarcoordinaten $d\varphi$ gestatten das unmittelbare Auftragen der Flächenpunkte in gnomonischer Projection. Umgekehrt lassen sich für die im Projectionsbild abgemessenen Coordinaten Symbol und Winkel in der Tabelle auffinden u. s. w.

Ein Motiv zur Herstellung der Winkeltabellen war ferner das, der zweikreisigen Messung und den mit ihr zusammenhängenden Reformen die Bahn zu ebnen. Ihrer Einführung war der Umstand hinderlich, dass man die durch Messung gefundenen Winkel meist nicht direct mit vorhandenen Verzeichnissen vergleichen konnte; während dies für einkreisige Messung wenigstens theilweise möglich war. Ohne die einmalige Durchführung der Rechnung durch das ganze Gebiet hätte sich die Ausrechnung der Winkel aus zerstreuten Arbeiten über die einzelnen Krystallarten zusammensetzen müssen. Sie und die Zusammenfassung zu einem Ganzen hätten Jahrzehnte dauern können und es wäre das Fehlen des Winkelcodex ein Hemmniss des Fortschritts gewesen.

Zählung der Winkel φ . Wir nehmen die Winkel φ stets $+$ vom Pol zum Aequator (Prismen) von 0 bis 90° . Den ersten Meridian vom Pol zur Fläche 0∞ (010) legen wir von links nach rechts und zählen die φ im Sinn des Uhrzeigers von 0 bis 180° , — φ im umgekehrten Sinn von 0 bis — 180° .

Gesamtform und Einzelflächen. Die Angabe φ einer Fläche involvirt die φ aller Einzelflächen der Gesamtform. Die ρ sind gleich für alle

Flächen der Gesamtmform. Die φ unterscheiden sich je nach der Symmetriearart (Krystallsystem). An Stelle der φ treten \pm Ergänzungen zu $60^\circ, 90^\circ, 120^\circ, 180^\circ$. Es ist also für eine Gesamtmform nur nöthig ein φ anzugeben. Wir nehmen das kleinste φ , d. h. das φ der Fläche, die im $+$ oder $-$ Sinn den kleinsten Winkelabstand vom ersten Meridian hat. Nur im regulären System sind für die durch Vertauschung der drei Axen erhaltenen drei Flächengruppen¹⁾ die φ besonders auszurechnen.

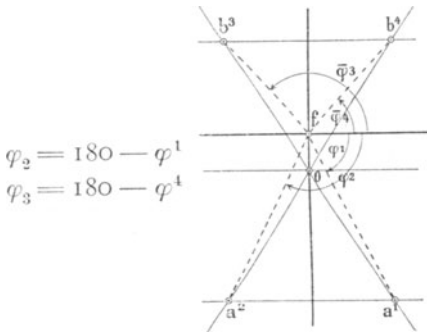
Fläche und Gegenfläche haben den gleichen Projectionspunkt, somit das gleiche φ . Doch ist zu beachten, dass bei Umkehrung des Krystalls die Flächen der unteren Krystallhälfte in umgekehrter Ordnung folgen als ihre Gegenflächen der oberen Hälfte.

Zur **Bezeichnung der Einzelflächen** verwenden wir die Index 1.43 eingeführten Indices. Dieselben können wir den zu der Fläche gehörigen φ beibehalten. So mögen $\varphi^1, {}^2\varphi$ zu den Flächen $a^1, {}^2a$ gehören. Wir nennen auch wohl kurz eine Fläche φ eine solche mit den Winkelkoordinaten φ und φ das **Winkelsymbol** der Fläche. In den einzelnen Systemen ergeben sich die φ aus φ^1 des ersten Quadranten resp. (im monoklinen System) aus φ^4 des vierten folgendermaassen.

Triklines System hat nur Fläche und Gegenfläche.

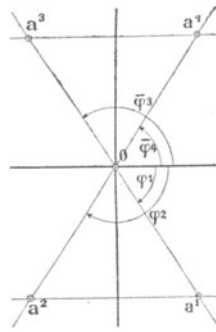
Monoklines System. (Fig. 1.)

Rhombisches System. (Fig. 2.)



$$\begin{aligned} \varphi_2 &= 180 - \varphi^1 \\ \varphi_3 &= 180 - \varphi^4 \end{aligned}$$

Fig. 1.



$$\begin{aligned} \varphi^1 & \\ \varphi^2 &= 180 - \varphi^1 \\ \varphi^3 &= 180 + \varphi^1 = -\varphi^2 \\ \varphi^4 &= 360 - \varphi^1 = -\varphi^1 \end{aligned}$$

Fig. 2.

Tetragonales System. (Fig. 3.)

$$\begin{aligned} \varphi^1 & & \varphi^3 &= 180 + \varphi^1 = -{}^2\varphi \\ {}^1\varphi &= 90 - \varphi^1 & {}^3\varphi &= 270 - \varphi^1 = -\varphi^2 \\ \varphi^2 &= 90 + \varphi^1 & \varphi^4 &= 270 + \varphi^1 = -{}^1\varphi \\ {}^2\varphi &= 180 - \varphi^1 & {}^4\varphi &= 360 - \varphi^1 = -\varphi^1 \end{aligned}$$

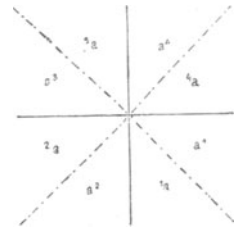


Fig. 3.

¹⁾ Vergl. Index I. 25.

Hexagonales System. (Fig. 4.)

φ^1	$\varphi^4 = 180 + \varphi^1 = -^3\varphi$
$^1\varphi = 60 - \varphi^1$	$^4\varphi = 240 - \varphi^1 = -\varphi^3$
$\varphi^2 = 60 + \varphi^1$	$\varphi^5 = 240 + \varphi^1 = -^2\varphi$
$^2\varphi = 120 - \varphi^1$	$^5\varphi = 300 - \varphi^1 = -\varphi^2$
$\varphi^3 = 120 + \varphi^1$	$\varphi^6 = 300 + \varphi^1 = -^1\varphi$
$^3\varphi = 180 - \varphi^1$	$^6\varphi = 360 - \varphi^1 = -\varphi^1$

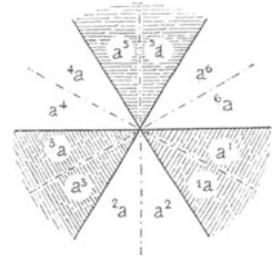


Fig. 4.

Reguläres System. Schreibt man, wie dies in der Winkeltabelle sowie in den Formenverzeichnissen des Index geschehen ist, für jede Gesamtform die drei Symbole G_1, G_2, G_3 an¹⁾, so ist der Krystall als tetragonal mit $p_0 = 1$ zu behandeln. (Eig. 5 und 6.)

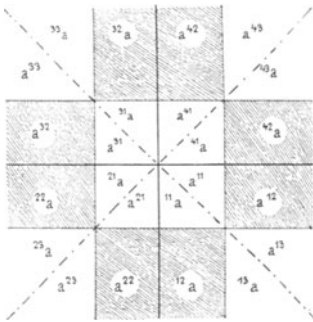


Fig. 5.

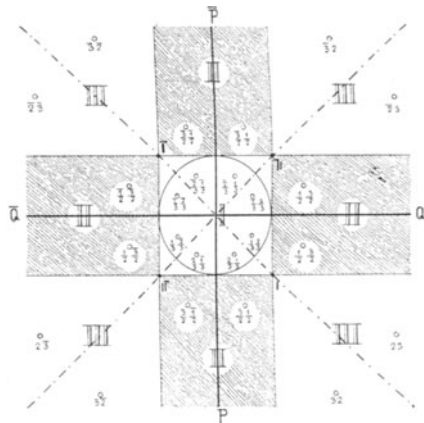


Fig. 6.

Vereinigung der hemiedrischen $\pm r1$ Formen. Diese lassen sich formell als Gruppen von Einzelflächen einer Gesamtform behandeln. Sie wurden in den Tabellen der Kürze wegen vereinigt. Bei Benutzung ist das φ richtig zu stellen durch Verlegen der Punkte in die richtigen Octanten (Dodekanten).

Feste Wahl der rechtwinkligen Coordinaten. Wir wollen für die Krystalle aller Systeme die rechtwinkligen Coordinaten $a b c$, die der zweikreisigen Messung zu Grunde liegen, folgendermaassen legen (Fig. 7 S. 5). c sei der Pol der Prismenzone, b der Projectionspunkt der Fläche $o \in (010)$, a der Punkt, der von $b c$ um 90° absteht; $c b$ sei der erste Meridian. Die Strahlen aus dem Krystallmittelpunkt durch $a b c$ mögen ebenfalls $a b c$ heissen. Sie sind unsere rechtwinkligen Coordinaten-Axen.

Hilfswinkel und Coordinaten. Zwei Einwände liessen sich gegen eine solche Winkeltabelle erheben:

1. Sie gestattet nur unvollkommen den Vergleich mit den Winkelangaben, in denen die bisherigen Beobachtungen niedergelegt sind.

¹⁾ Vergl. Index I. 25.

2. Sie ist nur für eine bestimmte Aufstellung des Krystalls unmittelbar zu gebrauchen.

Beiden Einwänden zugleich suchte ich durch Berechnung folgender Hilfswinkel und Coordinaten zu begegnen. Dieselben wurden bereits Zeitschr. Kryst. 1893. 21. 224 als charakteristische Winkel und Längen empfohlen.

Es sei in der stereographischen Projection Fig. 7 und 13 (S. 5 und 29) und in der gnomonischen Fig. 14 (S. 29) $g = pq$ die Form, auf die sich unsere Angaben beziehen, so berechnen wir ausser $\varphi \varrho$:

$$\xi_0 = ce = \sphericalangle o : po \quad \xi = hg = \sphericalangle oq : pq$$

$$\eta_0 = ch = \sphericalangle o : oq \quad \eta = eg = \sphericalangle po : pq$$

Ausserdem berechnen wir folgende Längen der gnomonischen Projection (Fig. 14):

$$\left. \begin{array}{l} xy, \text{ die rechtwinkligen Parallelcoor-} \\ \text{dinaten} \\ d, \text{ die lineare Poldistanz des Punktes } pq, \end{array} \right\} \text{ für } h = 1$$

wobei $h = \text{Radius des Grundkreises} = \text{Höhe der Projectionsebene über dem Krystallmittelpunkt}$ ist. Im monoklinen und triklinen System, wo h von 1 verschieden ist, können wir schreiben

$$x' = \frac{x}{h}, y' = \frac{y}{h}, d' = \frac{d}{h} \text{ statt } x, y, d \text{ (für } h = 1)$$

Für die Prismen wurde statt $x = \infty$ der Werth $\frac{x}{y}$ eingeschrieben.

$d \varphi$ sind die Polarcoordinaten des Punktes pq in der Projectionsebene.

Ad 1. Durch die Winkel $\varphi \varrho \xi_0 \eta_0 \xi \eta$ sind zugleich alle in Fig. 7 durch Striche oder Punkte angezeichneten Winkel gegeben. Das sind aber die meisten und wichtigsten der in den bisherigen Tabellen verzeichneten Winkel. Etwa fehlende berechnen sich leicht aus den gegebenen.

Damit ist der im ersten Einwand ausgedrückte Uebelstand im Wesentlichen behoben.

Ad 2. Aenderung der Aufstellung. Jede Aenderung der Aufstellung lässt sich auf folgende drei Operationen zurückführen:¹⁾

1. Vertauschung der Axen unter sich,
2. Vergrößerung (Verkleinerung) der Längenelemente $p_0 q_0$,
3. Verlegung der Basis.

Von den Aenderungen 2. und 3. werden nur die Symbole betroffen. Jede Form behält ihr $\varphi \varrho$ und damit auch die Hilfswinkel und Coordinaten. Es kommt nur als Störung die Vertauschung der Axen in Betracht.

Vertauschung der Axen. PQR seien die polaren Axen. Zwischen ihnen

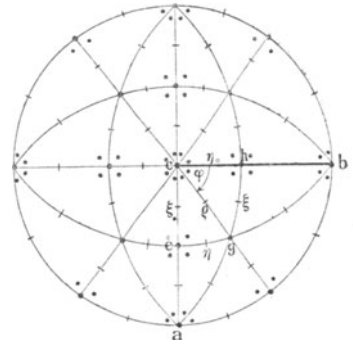


Fig. 7.

¹⁾ Vergl. Index I. 89.

sind drei Vertauschungen möglich: P mit Q, Q mit R, R mit P. Die Vertauschung der horizontalen Axen PQ macht keine Schwierigkeit. Es ist nur die Zählung von einem anderen Meridian begonnen. Drehen wir in der Horizontalebene um $\sphericalangle \alpha$, so ist statt der φ zu setzen $\varphi + \alpha$. Die ϱ bleiben unverändert. Im tetragonalen und hexagonalen System kommt nur diese Art Vertauschung vor. Es sei denn, dass man zu einem speciellen Zweck eine nicht normale Aufstellung wähle.

Eine wesentliche Aenderung bringt nur die Vertauschung von R mit P oder Q, d. h. die Wahl einer andern Prismenzone, eines andern Pols.

Sind die zwei vertauschten Axen auf einander senkrecht, so liefert die Einführung der $\xi_0 \eta_0 \xi \eta$ neben $\varphi \varrho$ die entsprechenden Werthe nach der Vertauschung. Wir werden dies sogleich näher betrachten. Diesen Fall haben wir im rhombischen System und im monoklinen bei Projection auf die Symmetrieebene, d. i. Vertauschung QR.

Im regulären System gibt es nur eine normale Aufstellung, im hexagonalen und tetragonalen System sind Pol und Prismenzone vorgezeichnet, im rhombischen System haben wir nur Vertauschung auf einander senkrechter Axen, ebenso im monoklinen bei Projection auf die Symmetrieebene. Somit wirkt die Vertauschung der Axen störend nur in folgenden zwei Fällen.

Monoklines System: Vertauschung PR.

Triklines System: Vertauschung PR, QR.

Auch in diesen wenigen Fällen ist der Nachtheil nicht schlimm. Er wird durch folgende Umstände aufgehoben resp. durch entsprechende Vortheile compensirt:

1. Bei den meisten Krystallarten ist die Aufstellung durch den Gebrauch der letzten Zeit stabilisirt. So zwar, dass die bestentwickelte Axenzone zur Prismenzone gemacht ist. Das entspricht dem Bedürfniss der zweikreisigen Messung.

2. Das Bestehen einer Winkeltabelle im vorliegenden Sinn wird die Stabilität der Aufstellung vermehren.

3. Die Vertauschung der rechtwinkligen Axen c mit a oder b entspricht

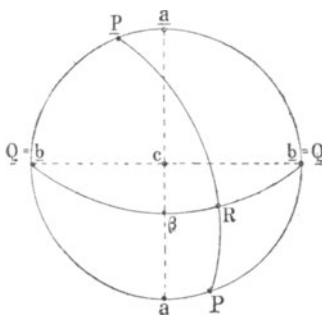


Fig. 8.

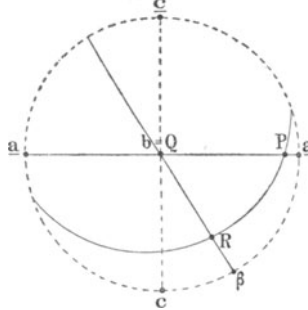


Fig. 9.

einer Polarstellung a oder b resp. Projection auf diese. Es fragt sich: Hat die Vertauschung von abc, die Projection auf a oder b neben c einen Werth für den allgemeinen Fall des triklinen Systems oder ist sie nur von Inter-

esse für Systeme mit rechtwinkligen Axen? Von den drei rechtwinkligen Axen ist nämlich nur b im triklinen System Normale einer kristallographischen Fläche. $b = Q \perp o \infty$ (im monoklinen System sind es ab). c ist Zonenaxe (Zone PQ), a liegt in Zone PQ 90° von P ab (Fig. 8).

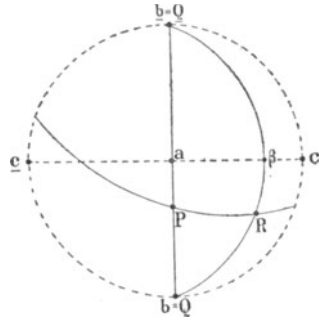


Fig. 10.

In der That ist diese Vertauschung von grosser Wichtigkeit, und zwar:

Zum Vergleich verwandter Substanzen in analoger Aufstellung.

Zur Untersuchung und Erklärung von Zwillingbildungen.

Zur Untersuchung optischer und sonst physikalischer Erscheinungen.

Zur Messung.

Fig. 8—10 zeigen die Aenderung der Lage der drei Pinakoidpunkte PQR sowie der Axenzonen PQ, QR, RP stereographisch bei Projection auf a, b, c.

Die Projection auf c (Fig. 8) liefert als Aequator die Axenzone QP, den ersten Meridian durch Q.

Die Projection auf b (Fig. 9) liefert Q als Pol, die Axenzone QP als ersten Meridian.

Die Projection auf a (Fig. 10) liefert den Meridian 90° durch die Axenzone PQ. Darin 90° von Q abstehend den Pol.

Wir können am Goniometer den Krystall in jeder dieser Aufstellungen befestigen. Dies ist besonders bei Messung von Zwillingen wichtig.

Ordnung der Vertauschung der Axen. Wir vollziehen die Vertauschung der Axen cyklich in folgender Ordnung¹⁾: abc, bca, cab.

In Coordinaten; xyI, yIx, Ixy .

Daraus ergeben sich die **Transformations-Symbole**:

$$xy \text{ (auf c)} = \frac{yI}{xI} \text{ (auf a)} = \frac{Ix}{yI} \text{ (auf b)}.$$

Die Transformation giebt das Vorzeichen von xy, dadurch den Quadranten und den Sinn der Zählung von $\xi_0 \eta_0 \xi \eta$, sowie die Grösse von φ aus dem φ des ersten Quadranten.

Es ist:	$x \xi_0 \xi$	$y \eta_0 \eta$
im I Quadr.	+	+
„ II „	+	-
„ III „	-	-
„ IV „	-	+

¹⁾ Vgl. Zeitschr. Kryst. 1893, 22. 20.

Die Symbole ändern sich durch die Vertauschung in folgende:

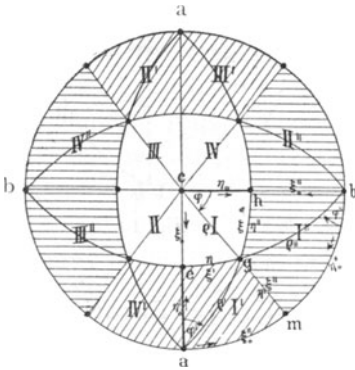


Fig. 11.

Fig. 11	Proj. c	Proj. a	Proj. b
c	o (001)	o ∞ (010)	∞ o (100)
b	o ∞ (010)	∞ o (100)	o (001)
a	∞ o (100)	o (001)	o ∞ (010)
e	p o (p01)	$o \frac{1}{p} (01p)$	$\infty p (1p0)$
h	o q (oq1)	q ∞ (q10)	$\frac{1}{q} o (10q)$
m	$\frac{p}{q} \infty (pq0)$	$\frac{q}{p} o (qop)$	$o \frac{p}{q} (opq)$
g	p q (pq1)	$\frac{q}{p} \frac{1}{p} (q1p)$	$\frac{1}{q} \frac{p}{q} (1pq)$
.	10 (101)	01 (011)	∞ (110)
.	01 (011)	∞ (110)	10 (101)
.	∞ (110)	10 (101)	01 (011)
.	1 (111)	1 (111)	1 (111)

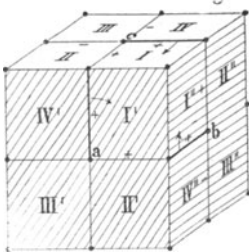


Fig. 12.

Fig. 11 zeigt, welche Werthe die Stücke $\varphi \varrho \xi \eta \xi_0 \eta_0$ in den drei Aufstellungen annehmen. Die Zahlen I II III IV zeigen den Quadranten für die drei Projectionen an. Was zur Projection auf a gehört, wurde mit dem Index (') bezeichnet, was zur Projection auf b gehört, durch ("). Die Pfeile zeigen den Sinn der +-Zählung an. Der erste Meridian ist durch eine stärkere Linie bezeichnet.

Uebersichtlicher noch als Fig. 11 ist die perspec-tivische Projection Fig. 12.

Die folgende Tabelle giebt die Umrechnung der Winkel $\varphi \varrho \xi_0 \eta_0 \xi \eta$ in die Projection auf a ($\varphi' \varrho' \xi_0' \eta_0' \xi' \eta'$) und auf b ($\varphi'' \varrho'' \xi_0'' \eta_0'' \xi'' \eta''$).

$\varphi = bm = 90 - \xi_0 = \eta_0''$	$\varphi' = ch = 90 - \xi_0'' = \eta_0$	$\varphi'' = ae = 90 - \xi_0 = \eta_0'$
$\varrho = cg = 90 - \eta' = 90 - \xi''$	$\varrho = ag = 90 - \eta'' = 90 - \xi$	$\varrho'' = bg = 90 - \eta = 90 - \xi'$
$\xi_0 = ce = 90 - \eta_0 = 90 - \varphi''$	$\xi = am = 90 - \eta_0'' = 90 - \varphi$	$\xi_0'' = bh = 90 - \eta_0 = 90 - \varphi'$
$\eta_0 = ch = \varphi' = 90 - \xi_0'$	$\eta_0 = ae = \varphi'' = 90 - \xi_0$	$\eta_0' = bm = \varphi = 90 - \xi_0''$
$\xi = hg = 90 - \varrho' = \eta''$	$\xi_0'' = eg = 90 - \varrho'' = \eta$	$\xi_0' = mg = 90 - \varrho = \eta'$
$\eta = eg = \xi' = 90 - \varrho'$	$\eta' = mg = \xi'' = 90 - \varrho$	$\eta'' = hg = \xi = 90 - \varrho'$

Wahl der Aufstellung. Für die Wahl der Aufstellung der einzelnen Krystallarten war eine principielle Frage zu entscheiden: Sollen die Aufstellungen des Index, die vielfach vom Ueblichen abweichen, beibehalten werden, d. h. sind die Principien,¹⁾ die dort maassgebend waren, auch hier entscheidend?

Das Formenverzeichniss des Index hatte den Zweck, in Verbindung

¹⁾ Index 1, 37.

mit der Projection eine Uebersicht der beobachteten Formen zu ermöglichen, ihre Beziehungen zu studiren, die sich in ihrer gegenseitigen Lage im Bild, wie in den Zahlenreihen, aussprechen. Dazu war es vortheilhaft, die zwei bestentwickelten Axenzonen zu Domen zu machen, die schwächstentwickelte zu Prismen. Bei der gnomonischen Projection, die der Symbolisirung des Index zu Grunde liegt, liegen die Prismenpunkte für die Discussion besonders ungünstig, nämlich im Unendlichen. Der Verband mit den Nachbarn ist zerrissen durch Ueberspringen von $+\infty$ in $-\infty$.

Die übliche Aufstellung dagegen stellt die bestentwickelte Axenzone aufrecht und macht sie zur Prismenzone, solange nicht Rücksichten auf die Symmetrie im Weg stehen. Der Grund dieser Bevorzugung war ein mehrfacher.

1. Anschauung. Die stärkstentwickelte Axenzone liefert häufig langgestreckte Flächen am einen Ende aufsitzend, am andern mit kleinen Flächen abschliessend. Der Gegensatz führte zur Unterscheidung von Prismen und terminalen Flächen. Der Anthropomorphismus wirkte mit. Er stellte die Prismen aufrecht, sah in ihnen den Körper, in dem mit kleinen Flächen besetzten freien Ende den Kopf und in dem aufsitzenden Ende den Fuss.

Danach erschien es beispielsweise unnatürlich, d. h. dem Anthropomorphismus zuwider, beim Epidot die Zone der langgestreckten Flächen senkrecht zur Symmetrieebene quer zu legen. Manche Autoren haben es auch nicht gethan, z. B. Hausmann.¹⁾ Sie haben danach das monokline System in zwei Gruppen gespalten.

2. Die einkreisige Messung nahm Zone nach Zone einzeln vor, zunächst die wichtigste, und stellte sie senkrecht zum Theilkreis. Diese wichtigste erste Stellung am Instrument blieb die Hauptstellung.

3. Bisher sind zwei Projectionsarten vorzugsweise im Gebrauch: die stereographische und die Quenstedt'sche. Beide geben der aufrechten Zone einen Vorzug. In der stereographischen sind die Prismenpunkte am bequemsten einzutragen; ihr Winkelabstand lässt sich im Bild direct als Bogen messen. In der Quenstedt'schen Projection ist der Projectionspunkt der Prismenzone der Coordinaten-Anfang. Die Winkel zwischen den Prismenflächen erscheinen im Bild, wenigstens bei rechtwinkligen Axen, direct zwischen den Tracen.

Für die Zwecke des Index waren die Vortheile für die dort getroffene Wahl über die Nachtheile überwiegend. Die Unbequemlichkeit des Abweichens vom Usus durch Vertauschung der Axen war leicht zu beheben durch Vertauschen der Zahlen im dreiziffrigen Symbol, sowie entsprechend der Elemente $p_0 q_0 1, \lambda \mu \nu$ resp. $a_0 b_0 c_0, \alpha \beta \gamma$. Deshalb entschloss ich mich dort oft zu einer vom Ueblichen abweichenden Aufstellung, trotz der Voraussicht, dabei vielfach dem Widerspruch der Fachgenossen zu begegnen.²⁾

¹⁾ Handbuch der Min. 1847, 2, S. XVII u. XVIII. Hausmann unterscheidet nach der Lage der Symmetrieebene ein klinorhombisches System, Beispiel Pyroxen S. 463, und ein orthorhomboidisches, Beispiel Epidot S. 561.

²⁾ Vergl. Index 1. 37. und Vorwort.

Für die Winkeltabelle lag die Frage anders. Hier traten wichtige Gründe hinzu und sprachen für die Wahl der am häufigsten und besten ausgebildeten Zone zur Prismenzone. Nämlich:

1. Die Aufstellung ist bequem zum Polarstellen am zweikreisigen Goniometer.
2. Ist nur diese Zone rundum ausgebildet, die anderen Flächen an deren einem Ende sitzend, so genügt ein Aufsetzen in normaler Stellung zur Durchführung der Messung.
3. Die Einführung der Winkeltabelle im vorliegenden Sinn (Positions-Winkel) ist eine radicale Reform. Die neue Tabelle soll statt der vorhandenen Tabellen der Flächenwinkel, zum Theil neben diesen verwendet werden. Der Vergleich beider ist aber nicht immer ein unmittelbarer; er wurde durch Einführung der Hilfswinkel $\xi_0 \eta_0 \xi \eta$ erleichtert. Immerhin bedarf er der Gewöhnung. Eine von dem Usus abweichende Aufstellung würde den Anschluss erschweren und wäre der Einführung ein Hinderniss.

Gegen diese Vortheile treten die Nachtheile zurück. Die Aenderungen gegen die Aufstellungen des Index bestehen nur in Vertauschung der Axen. Man kann die dreizahligen Symbole der Winkeltabellen auch in solchem Fall unmittelbar aus denen des Index ablesen und umgekehrt, indem man die drei Zahlen umstellt. Ausserdem ist für jede Form die Buchstabenbezeichnung beibehalten. Die Identification macht also keine Schwierigkeit. Die Elemente für die Aufstellung der Winkeltabelle sind in dieser bei jeder Krystallart angeschrieben. Die Transformation steht im Index und, wo dies nicht der Fall ist, in den „Bemerkungen“ der Winkeltabelle.

Die Rücksicht auf das Studium der Beziehungen der Formen in Bild und Zahlen, die für den Index Hauptsache war, ist hier nicht wichtig. Es ist nicht ein Instrument zu allen Zwecken gleich geeignet; je nach dem Zweck, dem es dient, ist es einzurichten. Wir ändern die Aufstellung nach Bedarf, wir projeciren den gleichen Krystall verschieden in Anschauung, Bild und Symbolen, je nach den Fragen, die wir an ihn richten.

Wahl der Elemente. Die Angabe der Elemente für fast alle Krystallarten schwankt. In der Regel in engen Grenzen; in weiten Grenzen da, wo die Mineralien einer isomorphen Gruppe zu einer Art zusammengefasst sind, z. B. bei den Pyroxenen. Es ist nicht möglich, die Winkeltabelle für alle diese Variationen zu machen. Die nöthige Ergänzung ist in den Publikationen über Special-Untersuchungen niederzulegen. Als Unterlage für die Winkeltabellen wurden die best gesicherten oder mittleren Werthe genommen; im allgemeinen nach der im Index geschehenen Wahl, unter Berücksichtigung der Angaben E. S. Dana's, der in seinem System eine kritische Wahl der Elemente nach den gleichen Principien durchgeführt hat.

Grösse der Aufgabe. Bevor ich an die Arbeit ging, versuchte ich, durch Schätzung ein Bild von der Grösse derselben zu gewinnen. Dies geschah auf Grund folgender Zählungen aus dem Index. Es fanden sich:

Regulär:	85 Mineralien mit	680 Formen
Tetragonal:	46 " "	518 "
Hexagonal:	94 " "	1367 "
Rhombisch:	158 " "	2329 "
Monoklin:	127 " "	2137 "
Triklin:	28 " "	501 "
Zusammen:	538 Arten mit	7532 Formen.

Für jede Form zwei Winkel $\varphi \varrho$, also im Ganzen ca. 15 000 Winkel.
Das Zutreten der Hilfswinkel $\xi_0 \eta_0 \xi \eta$ vermehrt

die Zahl auf das dreifache, also auf : . . . ca. 45 000 Winkel.

Dazu die Coordinaten $x y d$, gibt für jede Form

neun Stücke. Zusammen ca. 67 500 Stücke.

Im regulären System sind die Winkel für alle Krystallarten gleich.
Es genügt deshalb die einmalige Ausrechnung für jedes Symbol. Dagegen liefert jede Form durch die Vertauschung der Axen drei Einzelsymbole

$G_1 G_2 G_3$, z. B.: $(123) = \frac{2}{3} \frac{1}{3}, \frac{3}{2} \frac{1}{2}, 32$. Für jedes von diesen waren die Winkel

besonders zu berechnen. Dadurch wurde die Ersparniss kleiner:

Beobachtet im regulären System 85 Arten mit 680 Formen:

Sie erfordern: $9 \times 680 = 6120$ Stücke

Darunter 129 verschiedene Formen:¹⁾

Sie erfordern: $3 \times 9 \times 129 = 3483$ "

Erspart: $\frac{3483}{6120} = 2637$ Stücke

Die Ersparniss ist nicht bedeutend. Es blieben ca. 65 000 Stücke.

Von diesen entfällt eine grosse Zahl zur Berechnung. Nämlich solche, die durch die Symmetrieverhältnisse der Krystallart (Krystallsystem) gegeben sind. Ich schätzte diese auf die Hälfte, was sich als annähernd richtig erwies.
Danach blieben:

Zur Berechnung	ca. 33 000 Stücke
davon	ca. 22 000 Winkel
	ca. 11 000 Coordinaten
In die Tabelle einzutragen waren .	ca. 65 000 Stücke
dazu die Elemente ²⁾	ca. 5 000 Stücke
Also in Summa	ca. 70 000 Stücke

Es fragte sich, ob diese grosse Arbeit ausführbar sei. Versuche zeigten,

¹⁾ Vergl. Index I, 140.

²⁾ Elemente: Tetragonal $46 \times 4 = 184$
 Hexagonal $94 \times 6 = 564$
 Rhombisch $158 \times 12 = 1896$
 Monoklin $127 \times 18 = 2286$
 Triklin $28 \times 17 = 476$
5406

dass ein fleissiger Rechner in einem Tage ca. 100 Winkel mit zugehörigen Coordinaten, also etwa 150 Stücke bestimmen kann. Daraus ergibt sich die Arbeitszeit zu etwa 220 Tagen. Für ausfallende Zeit, Revision und Reinschrift rechnete ich das Doppelte und glaubte so, in $1\frac{1}{2}$ —2 Jahren, die Arbeit bezwingen zu können.

Anfangs ging es rascher vorwärts, als ich gehofft hatte. Ich fand in Herrn Ph. M. Kettner in Prag einen fleissigen und zuverlässigen Mitarbeiter. Er arbeitete sich in die Rechnung ein und nahm sich zeitweise mehrere Hilfsarbeiter an, die er instruirte und deren Arbeit er revidirte. So gelang es, die Hauptmasse der Rechnung sowie einen Theil der Reinschrift in der kurzen Zeit von Anfang März bis Anfang November 1895, also in 8 Monaten, zu bewältigen. Leider musste dann Herr Kettner aus Gesundheitsrücksichten die Arbeit niederlegen. Dadurch gelang die Fertigstellung des Ganzen erst im November 1896.

Die Rechnungen wurden in geschlossenem Schema (Tabellen) geführt. Wo sie nicht ganz einfach waren, enthielten sie eine Controle in sich.

Schemas zur Ausrechnung der Tabellen. Die Ausrechnung wurde nach festem Schema in Tabellenform geführt, so zwar, dass für jede Form die nöthigen Winkel $\varphi \rho \xi_0 \eta_0 \xi \eta$ und die Coordinaten xyd resp. $x:h, y:h, d:h$ in einer Zeile entstehen. Die gleiche Zeile enthält eine Controle der ganzen Rechnung und in complicirten Fällen Untercontrole einzelner Operationen. Durch die Controle ist die Richtigkeit der Rechnung gesichert. Fehler können nur entstehen durch Einführen falscher Werthe und Symbole resp. deren Logarithmen. Nur bei ganz einfachen Rechnungen wurde die Controle weggelassen. So bei den Prismen und den Domen der hochsymmetrischen Systeme. Die Controle besteht darin, dass der gleiche Werth auf zwei verschiedenen Wegen gewonnen wird.

Der Kopf jeder Columnne gibt den für alle Zeilen gleichmässigen Inhalt an, zugleich die Operation, die auszuführen ist, um diesen Werth zu erhalten, und öfters eine Vorschrift über die Controle.

Beispiel:

9
$\lg \frac{x}{y} =$
$\lg t g \varphi$
$5 - 6 =$
$6 - 7$

Das bedeutet Col. 9 enthält für jede Zeile den Werth $\lg t g \varphi = \lg \frac{x}{y}$. Er wird erhalten durch $5 - 6$ d. h. durch Subtraktion des Inhalts der Col. 6 von Col. 5. Die Differenz der Col. 6 und 7 liefert den gleichen Werth (Controle).

Im Folgenden sind die Formeln zur Berechnung der Tabellen und die Controllformeln sowie die Köpfe der angewandten Schemas nebst einem Zahlenbeispiel zusammengestellt. Sie sind an sich verständlich.

Formeln zur Berechnung der Winkeltabellen.¹⁾

	$\frac{x}{h} = \text{tg } \xi_0$	$\frac{y}{h} = \text{tg } \eta_0$	$\frac{x}{y} = \text{tg } \varphi$	$\frac{d}{h} = \text{tg } \varrho$	$\sin \xi$	$\sin \eta$	Bemerkungen
Triklin							
pq	$\frac{x_0 + pp_0 \sin \nu}{h}$	$\frac{y_0 + qq_0 + pp_0 \cos \nu}{h}$	$\frac{x}{y}$	$\frac{x}{h \sin \varphi} = \frac{y}{h \cos \varphi}$	$\sin \varphi \sin \varrho$	$\cos \varphi \sin \varrho$	
oq	$\frac{x_0}{h}$	$\frac{y_0 + qq_0}{h}$	"	"	"	"	
po	$\frac{x_0 + pp_0 \sin \nu}{h}$	$\frac{y_0 + pp_0 \cos \nu}{h}$	"	"	"	"	
∞q	∞	∞	$\frac{p_0 \sin \nu}{qq_0 + pp_0 \cos \nu}$	∞	$\sin \varphi$	$\cos \varphi$	$\xi_0 = \eta_0 = \varrho = 90^\circ$
Monoklin							
pq	$\frac{pp_0 + e}{h}$	$\frac{qq_0}{h}$	$\frac{x}{y}$	$\frac{x}{h \sin \varphi} = \frac{y}{h \cos \varphi}$	$\sin \varphi \sin \varrho$	$\cos \varphi \sin \varrho$	$\frac{x}{h} = \text{const}; \xi_0 = \text{const.}$
oq	$\frac{e}{h}$	"	"	"	"	"	$\xi_0 = \xi = \varrho$
po	$\frac{pp_0 + e}{h}$	o	∞	$\frac{x}{h}$	$\sin \varrho$	o	$\xi_0 = \eta_0 = \varrho = 90^\circ; \xi = \varphi; \eta = 90 - \varphi$
∞q	∞	∞	$\frac{p_0}{qq_0}$	∞	$\sin \varphi$	$\cos \varphi$	
Rhombisch ($h = l$)							
pq	pp ₀	qq ₀	$\frac{x}{y}$	$\frac{x}{\sin \varphi} = \frac{y}{\cos \varphi}$	$\sin \varphi \sin \varrho$	$\cos \varphi \sin \varrho$	$\eta_0 = \eta = \varrho; \varphi = 0$
oq	o	"	o	qq ₀	o	$\sin \varrho$	$\xi_0 = \xi = \varrho; \varphi = 90$
po	pp ₀	o	∞	pp ₀	$\sin \varrho$	o	$\xi_0 = \eta_0 = \varrho = 90^\circ; \xi = \varphi; \eta = 90 - \varphi$
∞q	∞	∞	$\frac{p_0}{qq_0}$	∞	$\sin \varphi$	$\cos \varphi$	
Tetragonal ($h = l$)							
pq	pp ₀	qp ₀	$\frac{p}{q}$	$\frac{x}{\sin \varphi} = \frac{y}{\cos \varphi}$	$\sin \varphi \sin \varrho$	$\cos \varphi \sin \varrho$	$\text{tg } \varrho = p_0 \sqrt{p^2 + q^2}$
p	pp ₀	pp ₀	1	$\frac{x}{2} \sqrt{2}$	$\frac{1}{2} \sqrt{2} \sin \varrho$	$\frac{1}{2} \sqrt{2} \sin \varrho$	$x = y; \varphi = 45^\circ; \text{tg } \varrho = pp_0 \sqrt{2}; \xi_0 = \eta_0; \xi = \eta$
oq	o	qp ₀	o	qp ₀	o	$\sin \varrho$	$\eta = \eta_0 = \varrho$
∞q	∞	∞	$\frac{1}{q}$	∞	$\sin \varphi$	$\cos \varphi$	$\xi_0 = \eta_0 = \varrho = 90^\circ; \xi = \varphi; \eta = 90 - \varphi$

¹⁾ Ueber die Bedeutung der in der Berechnung auftretenden Werthe pq, p₀, q₀, h, e, ν vergl. Index I. S. 15, sowie Index 3. Vorwort VII.

	$\frac{x}{h} = \text{tg } \xi_0$	$\frac{y}{h} = \text{tg } \eta_0$	$\frac{x}{y} = \text{tg } \varphi$	$\frac{d}{h} = \text{tg } \varrho$	$\sin \xi$	$\sin \eta$	Bemerkungen.
Hexagonal ($h=1$)							
pq	$\frac{p_0 \sqrt{3}}{2}$	$\frac{p_0}{(p+zq)z}$	$\frac{x}{y}$	$\frac{x}{\sin \varphi} = \frac{y}{\cos \varphi}$	$\sin \varphi \sin \varrho$	$\cos \varphi \sin \varrho$	$\text{tg } \varrho = p_0 \sqrt{p^2 + pq + q^2}$
p	"	$\frac{2}{3} pp_0$	$\frac{y}{\frac{1}{3} \sqrt{3}}$	$\frac{1}{2} \sqrt{3} \sin \varphi$	$\frac{1}{2} \sqrt{3} \sin \varrho$	$\frac{1}{2} \sqrt{3} \sin \varrho$	$\varphi = 30^\circ$
oq	o	qp ₀	o	o	o	$\sin \varrho$	$\eta = \eta_0 = \varrho$
∞q	∞	∞	$\frac{\sqrt{3}}{2q+z}$	∞	$\sin \varphi$	$\cos \varphi$	$\xi_0 = \eta_0 = \varrho = 90^\circ; \xi = \varphi; \eta = 90^\circ - \varphi$
Regulär ($h=1$)							
pq	p	q	$\frac{p}{q}$	$\frac{p}{\sin \varphi} = \frac{q}{\cos \varphi}$	$\sin \varphi \sin \varrho$	$\cos \varphi \sin \varrho$	$\text{tg } \varrho = \sqrt{p^2 + q^2}$
p	p	p	1	$\frac{p}{p\sqrt{2}}$	$\frac{1}{2} \sqrt{2} \sin \varrho$	$\frac{1}{2} \sqrt{2} \sin \varrho$	$x = y = p; \varphi = 45^\circ; \xi_0 = \eta_0; \xi = \eta$
oq	o	q	o	q	o	$\sin \varrho$	$\eta = \eta_0 = \varrho$
∞q	∞	∞	$\frac{1}{q}$	∞	$\sin \varphi$	$\cos \varphi$	$\xi_0 = \eta_0 = \varrho = 90^\circ; \xi = \varphi; \eta = 90^\circ - \varphi$

Controlformeln.

Die wichtigste zur Controlle verwendete Formel ist die folgende:

$$\sin \xi_0 \sin \eta_0 = \text{tg } \xi \text{ tg } \eta$$

Ausserdem wurden folgende Relationen zu gelegentlichen Controlen verwendet.

$\frac{x}{h} = \text{tg } \xi_0 = \sin \varphi \text{ tg } \varrho$	$\frac{x}{y} = \frac{\sin \xi}{\sin \eta} = \text{tg } \varphi$	$\sin \xi = x \cos \varrho$	$\cos \varrho = \cos \xi_0 \cos \eta = \cos \xi \cos \eta_0$
$\frac{y}{h} = \text{tg } \eta_0 = \cos \varphi \text{ tg } \varrho$		$\sin \eta = y \cos \varrho$	
$\varphi = \text{const.}$ für die Radialzonen ausser im monoklinen und triklinen System.		$\cos \xi_0 = \text{ctg } \eta_0 \text{ tg } \eta$	$\sin \varphi \sin \varrho = \sin \xi_0 \cos \eta$
$x, \xi_0 = \text{const.}$ für Quer Parall. Zon. aller Systeme.		$\cos \eta_0 = \text{ctg } \xi_0 \text{ tg } \xi$	$\cos \varphi \sin \varrho = \sin \eta_0 \cos \xi$
$y, \eta_0 = \text{const.}$ für Längs Parall. Zon. ausser triklin.		$\varrho > \xi_0 > \xi$	
		$\varrho > \eta_0 > \eta$	

Köpfe der Schemas und Zahlenbeispiele.

Controle.

Regulär. p q ($p < q$)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Symb.	lg p	lg q	$\frac{p}{q}$	$\lg \sin \varphi$	φ	$\lg \frac{p}{\sin \varphi}$ = lg tg ξ	$\sqrt{p^2 + q^2}$ lg s. Tab. S. 22-23	ϱ	lg cos ϱ	lg p cos ϱ = lg sin ξ	lg q cos ϱ = lg sin η	ξ_0 arc. tg	η_0 arc. tg	ξ arc. sin	η arc. sin	d	lg sin 12 lg sin 13	lg tg 14 lg tg 15	$\Sigma 17$ $\Sigma 18$
$\frac{2}{3}$	982391	012494	969897	965052	26°33'9"	017339	$\frac{1}{3} \sqrt{20}$	56°08'7"	974592	956983	987086	33°41'4"	53°07'8"	21°48'1"	47°58'1"	14907	974405	960206	964714

Regulär. p l ($p < l$)

$y = q = 1; \xi_0 = \varphi; \eta_0 = 45^\circ; \varrho + \eta = 90^\circ$ (Controle)

Controle.

	1	2	3	4	5	6	7	8	9	10	11	12
Symb.	lg p	lg x	φ	$\lg \frac{p}{\sin \varphi}$ = lg tg ϱ	$\sqrt{p^2 + l}$ lg s. Tab. S. 22-23	ϱ	lg p cos ϱ = lg sin ξ	lg p cos ϱ = lg sin η	ξ	η	d	lg cos ξ
$\frac{1}{2}$	969897	965052	26°33'9"	004845	$\frac{1}{2} \sqrt{5}$	48°11'4"	952287	982390	19°28'2"	41°48'6"	11180	997443 997441

Regulär. l q ($l < q$)

$x = p = 1; \xi_0 = 45^\circ; \eta_0 = 90^\circ - \varphi; \varrho + \xi = 90^\circ$ (Controle)

Controle.

	1	2	3	4	5	6	7	8	9	10	11	12
Symb.	lg $\frac{l}{q}$	lg sin φ	φ	$\lg \frac{l}{\sin \varphi}$ = lg tg ϱ	$\sqrt{l + q^2}$ lg s. Tab. S. 22-23	ϱ	lg cos ϱ = lg sin ξ	lg cos ϱ = lg sin η	ξ	η	d	lg cos η
$\frac{1}{2}$	969897	965052	26°33'9"	034948	$\sqrt{5}$	65°54'3"	961093	991196	24°05'7"	54°44'2"	2360	976143 976144

Regulär. $p (p=q)$

$x=y=p; \varphi=45^\circ; \xi_0=\eta_0; \xi=\eta$

Controle.

Controle.

	1	2	3	4	5	6	7	8	9
Symb. $p=q$ $x=y$	$\lg p =$ $\lg \operatorname{tg} \xi_0$	$\lg p \sqrt{2}$ $\lg \operatorname{tg} \varrho$ $1+015051$	ϱ aus 2	$\lg \cos \varrho$ $=\Sigma 9$ aus 2,9	$\lg p \cos \varrho$ $=\lg \sin \xi$ $1+4$	$\xi_0=\eta_0$ arc. tg aus 1	$\xi=\eta$ arc. sin aus 5	d $=\operatorname{tg} \varrho$ aus 2	$\lg \cos \xi_0$ $\lg \cos \xi$ aus 6,7
$\frac{1}{2}$	969897	984948	35°15'9	991195 991195	961092	26°33'9	24°05'7	0.7071	995154 996041

Tetragonal

$pq (p < q)$

Name	Element	Buchst. Symb.	1	2	3	4	5	6	7	8	9
			$\lg p$	$\lg q$	$\lg x =$ $\lg pp_0 =$ $\lg \operatorname{tg} \xi_0$ $1 + \lg p_0$	$\lg y =$ $\lg qp_0 =$ $\lg \operatorname{tg} \eta_0$ $2 + \lg p_0$	$\lg \frac{p}{q} =$ $\lg \operatorname{tg} \varphi =$ $1-2=3-4$ $=12-13$	$\lg \sin \varphi$	$\lg \cos \varphi$	φ	$\lg \frac{pp_0}{\sin \varphi} =$ $\lg \frac{qp_0}{\cos \varphi} =$ $\lg \operatorname{tg} \varrho =$ $3-6=4-7$
Scheelit	$\lg p_0 = 018639$	$x \frac{1}{6} \frac{2}{3}$	922185	982391	940824	001030	939794	938477	998683	14°02'1	002346

Tetragonal p ($p=q$)

Name	Element	Buchst. Symb.	1	2	3
			$\lg p$	$\lg x =$ $\lg pp_0 =$ $\lg \operatorname{tg} \xi_0$ $1 + \lg p_0$	$\lg pp_0 \sqrt{2}$ $= \lg \operatorname{tg} \varrho$ $2 + 015051$
Zirkon	$\lg p_0 = 980638$	$F \frac{1}{3}$	952288	932926	947977

Tetragonal oq

Name	Element	Buchst. Symb.	1	2	3	4
			$\lg q$	$\lg y =$ $\lg qp_0 =$ $\lg \operatorname{tg} \varrho$ $1 + \lg p_0$	ϱ aus 2	y aus 2
Anatas	$\lg p_0 = 024971$	$\gamma \circ \frac{9}{2}$	065321	090292	82°52'3	7.9968

Regulär **oq**

Symb. oq = xy	lg q = lg tg ρ	ρ
$\frac{1}{2}$ 0	969897	26°33'9

Regulär **∞ q**

Symb. ∞ q	lg q = lg ctg φ	φ
∞ 2	030103	26°33'9

Regulär **Controle.**

ρ von oq + ρ von 0	$\frac{1}{q} = 90^\circ$
φ von ∞ q + φ von ∞	$\frac{1}{q} = 90^\circ$
ρ von oq = φ von ∞	$\frac{1}{q}$

Controle.

10	11	12	13	14	15	16	17	18	19	20	21	22	23
lg sin ρ	ρ	lg sin φ = sin ρ = lg sin ξ	lg cos φ = sin ρ = lg sin η	ξ ₀	η ₀	ξ	η	x	y	d = tg ρ	lg sin ξ ₀ lg sin η ₀	lg tg ξ lg tg η	Σ 21 = Σ 22
		6 + 10	7 + 10	aus 3	aus 4	aus 12	aus 13	aus 3	aus 4	aus 9	aus 14, 15	aus 16, 17	
986090	46°32'8	924567	984773	14°21'5	45°40'7	10°08'4	44°46'2	0'2560	1'0240	1'0555	939445 985457	925251 999651	924902 924902

Controle.

Controle.

4	5	6	7	8	9	10	11
lg cos ρ = Σ 11 aus 3, 11	ρ	lg sin ξ ₀ = lg tg ξ	ξ ₀ = η ₀ arc tg aus 2	ξ = η arc tg aus 3	x = y aus 2	d = tg ρ aus 3	lg cos ξ ₀ lg cos ξ aus 7, 8
998107 998106	16°47'7	931959	12°02'9	11°47'6	0'2134	0'3018	999032 999073

Tetragonal **∞ q**

Symb.	lg q = lg ctg φ	φ
∞ 2	030103	26°33'9

Hexagonal pq ($p > q$)

Name	Elemente	Buchst. Symb. pq	1	2	3	4	5	6	7	8
			lg q	lg(2p+q)	lg x = lg q $\frac{p_0}{2} \sqrt{3}$ = lg tg ξ_0 $1 + \lg \frac{p_0}{2} \sqrt{3}$	lg y = lg $\frac{p_0}{2}(2p+q)$ = lg tg η_0 $2 + \lg \frac{p_0}{2}$	lg $\frac{x}{y}$ = lg tg φ = $\frac{6-7}{3-4}$	lg sin φ	lg cos φ	φ
Quarz	lg p ₀ = 010382 lg $\frac{p_0}{2}$ = 980279; lg p ₀ $\frac{\sqrt{3}}{2}$ = 004135	$\xi: + \frac{2}{3} \frac{1}{6}$	922185	017609	926320	997888	928432	927642	999210	10°5

Hexagonal p ($p=q$) $\varphi = 30^\circ$

Name	Elemente	Buchst. Symb.	1	2	3	4	5	6
			lg p	lg x = lg $\frac{pp_0}{2} \sqrt{3}$ = lg tg ξ_0 $1 + \lg \frac{p_0}{2} \sqrt{3}$	lg y = lg $p \frac{3}{2} p_0$ = lg tg η_0 $1 + \lg \frac{3}{2} p_0$	lg $\frac{pp_0}{2} \sqrt{3}$ = lg tg ϱ = $\frac{7-8}{2+030103}$ $1 + \lg p_0 \sqrt{3} =$ $2+030103$	lg sin ϱ	ϱ
Eisenglanz	lg p ₀ = 995819; lg p ₀ $\sqrt{3}$ = 019675 lg $\frac{3}{2} p_0$ = 013428, lg $\frac{p_0}{2} \sqrt{3}$ = 989572	$\alpha - \frac{1}{5}$	930103	919675	943531	949778	947728	17°28

Controle der Elemente: $\lg p_0 + \lg \frac{3}{2} p_0 = \lg p_0 \sqrt{3} + \lg \frac{p_0}{2} \sqrt{3}$

Hexagonal po

Name	Element	Buchst. Symb.	1	2	3	4
			lg p	lg $\frac{pp_0}{2} =$ lg tg ϱ $1 + \lg p_0$	ϱ aus 2	y = tg ϱ aus 2'
Calcit	lg p ₀ = 975552	$\lambda 20$	030103	005655	48°43'2	1'1391

Rhombisch pq

Name	Elemente	Buchst. Symb.	1	2	3	4	5	6	7	8
			lg p	lg q	lg x = lg $\frac{pp_0}{2} =$ lg tg ξ_0 $1 + \lg p_0$	lg y = lg $qq_0 =$ lg tg η_0 $2 + \lg q_0$	lg $\frac{pp_0}{qq_0} =$ lg tg φ $\frac{6-7}{12-13}$ 3-4	lg sin φ	lg cos φ	φ
Baryt	lg p ₀ = 020720 lg q ₀ = 011846	$\xi \frac{1}{2} 2$	969897	030103	990617	041949	948668	946716	998048	17°

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Controle

9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
$\lg \frac{x}{\sin \varphi} =$ $\lg \frac{y}{\cos \varphi} =$ $\lg \frac{\rho}{\sin \varphi} =$ $\lg \frac{\rho}{\cos \varphi} =$ 3-6=4-7	$\lg \sin \varrho$	ϱ	$\lg \sin \varphi$ $\cdot \sin \varrho =$ $\lg \sin \xi$	$\lg \cos \varphi$ $\cdot \sin \varrho =$ $\lg \sin \eta$	ξ_0	η_0	ξ	η	x	y	d =tg ϱ	$\lg \sin \xi_0$ $\lg \sin \eta_0$	$\lg \operatorname{tg} \xi$ $\lg \operatorname{tg} \eta$ aus 16'17	$\Sigma 21 =$ $\Sigma 22 =$
998678	984278	44°07'7	911920	983488	10°24'2	43°36'4	7°33'6	43°08'2	0'1833	0'9525	0'9700	925602 983866	912298 997172	909468 909470

7	8	9	10	11	12	13
$\lg \frac{1}{2} \sin \varrho =$ $\lg \sin \xi$ 5+969897	$\lg \frac{\sqrt{3}}{2} \sin \varrho =$ $\lg \sin \eta$ 5+993753	ξ_0	η_0	ξ	η	x
917625	941481	8°56'4	15°14'4	8°37'8	15°03'8	0'1573

Hexagonal

$p \infty$

	1	2	3	4	
Symb.	$2p+1$	$\lg(2p+1)$	$\lg \frac{\sqrt{3}}{2p+1}$ = $\lg \operatorname{tg} \varphi$ 023856-2	φ aus 3	$\frac{x}{y}$ = $\operatorname{tg} \varphi$ aus 3
$\frac{3}{2} \infty$	4	060206	963650	23°24'8	0'4330

Controle

9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
$\lg \frac{pp_0}{\sin \varphi} =$ $\lg \frac{qq_0}{\cos \varphi} =$ $\lg \operatorname{tg} \varrho$ 3-6=4-7	$\lg \sin \varrho$	ϱ	$\lg \sin \varphi$ $\cdot \sin \varrho =$ $\lg \sin \xi$	$\lg \cos \varphi$ $\cdot \sin \varrho =$ $\lg \sin \eta$	ξ_0	η_0	ξ	η	x	y	d =tg ϱ	$\lg \sin \xi_0$ $\lg \sin \eta_0$	$\lg \operatorname{tg} \xi$ $\lg \operatorname{tg} \eta$ aus 14, 15 aus 16, 17	$\Sigma 21 =$ $\Sigma 22 =$
043901	997300	70°00'2	944016	995348	38°51'5	69°09'7	15°59'6	63°57'0	0'8057	2'6272	2'7480	979754 997061	045731 031086	976815 976817

Triklin oq

Name	Elemente	Buchst. Symb.	1	2	3	4	5	6	7	8	9
			qq _o	y = y _o + qq _o 1 + y _o	lg y lg 2	lg $\frac{y}{h}$ = lg tg η _o = 7 + 9	lg $\frac{x}{y}$ = lg tg φ = 6 - 7	lg sin φ aus 5	lg cos φ aus 5	φ aus 5	lg $\frac{x}{h \sin \varphi}$ = lg $\frac{y}{h \cos \varphi}$ = lg tg ρ lg $\frac{x_o}{h}$ - 6 = 4 - 7
Kupfervitriol	q _o = 0.4974	v o1	0.4974	0.9189	996327	002475	945569	943866	998298	15°56.2	004178
	y _o = 0.4215; lg h = 993852	q o2	0.9948	0.5732	975831	981979	966065	961934	995869	24°35.8	986110
	lg $\frac{x_o}{h}$ = lg tg ξ _o = 948044										

Anm. Ueber die Vorzeichen und den Werth von φ vergl. Anm. zu pq triklin. Bei oq bestimmt Beispiel liegt v im 1^{ten}, q im 2^{ten} Quadranten. Danach ist bei v alles +, bei q ist η_oη_y - und statt des

Triklin ∞ q

Name	Elemente	Buchst. Symb.	1	2	3	4	5	6
			qq _o	qq _o + p _o cos ν	lg (qq _o + p _o cos ν)	lg $\frac{x}{y}$ = lg p _o sin ν - lg y = lg tg φ lg p _o sin ν - 3	φ aus 4	$\frac{x}{y}$ aus 4
Kupfervitriol	q _o = 0.4974	t ∞ $\frac{1}{2}$	0.2487	0.4152	961826	032753	64°48.4	2.1258
	lg p _o sin ν = 994579; p _o cos ν = 0.1665	h ∞ 2	0.9948	0.8283	991819	002760	46°49.1	1.0656

Anm. $\frac{x}{y}$ ist -, wenn qq_o + p_o cos ν (Col. 2) - ist. In dem Fall ist statt des berechneten φ zu setzen 180 - φ. In unserem Beisp. bei h ist φ = 180 - 46°49.1 = 133°10.9.

Controle.

10	11	12	13	14	15	16	17	18	19	20	21	22	23
$\lg \sin \varrho$	ϱ	$\lg \sin \varphi$ = $\lg \sin \xi$	$\lg \cos \varphi$ = $\lg \sin \eta$	ξ_0 const. arc tg aus $\frac{x_0}{h}$	η_0 arc tg aus 4	ξ arc sin aus 12	η arc sin aus 13	$x' = \frac{x - x_0}{h}$ const. aus $\lg \frac{x_0}{h}$	$y' = \frac{y}{h}$	$d' = \frac{d}{h}$ = tg ϱ	$\lg \sin \xi_0$ $\lg \sin \eta_0$	$\lg \operatorname{tg} \xi$ $\lg \operatorname{tg} \eta$	$\Sigma 21$ = $\Sigma 22$
aus 9	aus 9	6+10	7+10						aus 4	aus 9	aus 14'15	aus 16'17	
986937	47°45'1	930803	985235	16°49'2	46°37'9	11°43'6	45°22'8	0'3023	1'0586	1'1010	946144 986151	931717 000576	032295 032293
976911	35°59'4	938845	972780	"	33°26'4	14°09'5	32°17'8	"	0'6604	0'7263	946144 974120	940184 980080	920264 "

das Vorzeichen des constanten $x=x_0$ mit y (Col. 2) den Quadranten des Flächenpunktes. In unserem berechneten $\varrho = 24^\circ 35' 8$ ist zu setzen $180 - 24^\circ 35' 8 = 155^\circ 24' 2$.

Hilfstabelle zur Berechnung von ϱ

in den hochsymmetrischen Systemen.

Wir haben die Formeln:

Regulär: $\lg \varrho = \sqrt{p^2 + q^2}$

Tetragonal: $\lg \varrho = p_0 \sqrt{p^2 + q^2}$

Hexagonal: $\lg \varrho = p_0 \sqrt{p^2 + pq + q^2}$

Für gebrochene pq , also für $\frac{p}{n} \frac{q}{n}$:

Regulär: $\lg \varrho = \frac{1}{n} \sqrt{p^2 + q^2}$

Tetragonal: $\lg \varrho = p_0 \frac{1}{n} \sqrt{p^2 + q^2}$

Hexagonal: $\lg \varrho = p_0 \frac{1}{n} \sqrt{p^2 + pq + q^2}$

Die Werthe $\lg \frac{1}{n} \sqrt{p^2 + q^2}$ und $\lg \frac{1}{n} \sqrt{p^2 + pq + q^2}$ sind hier für $pq = 1$ bis 10 ausgerechnet.

Regul. Tetrag. pq	Hexag. pq	$\frac{\sqrt{p^2 + q^2}}{\sqrt{p^2 + pq + q^2}}$	$\lg \sqrt{\quad}$	$\lg \frac{1}{2} \sqrt{\quad}$	$\lg \frac{1}{3} \sqrt{\quad}$	$\lg \frac{1}{4} \sqrt{\quad}$	$\lg \frac{1}{5} \sqrt{\quad}$	$\lg \frac{1}{6} \sqrt{\quad}$	$\lg \frac{1}{7} \sqrt{\quad}$	$\lg \frac{1}{8} \sqrt{\quad}$	$\lg \frac{1}{9} \sqrt{\quad}$
11	—	$\sqrt{2}$	015051	984948	967339	954845	945154	937236	930541	924742	919627
—	11	$\sqrt{3}$	023856	993753	976144	963650	953959	946041	939346	933547	928432
21	—	$\sqrt{5}$	034948	004845	987236	974742	965051	957133	950438	944639	939524
—	21	$\sqrt{7}$	042255	012152	994543	982049	972358	964440	957745	951946	946831
31	—	$\sqrt{10}$	050000	019897	002288	989794	980103	972185	965490	959691	954576
—	31	$\sqrt{13}$	055697	025594	007985	995491	985800	977882	971187	965388	960273
41	—	$\sqrt{17}$	061522	031419	013810	001316	991625	983707	977012	971213	966098
—	32	$\sqrt{19}$	063937	033834	016225	003731	994040	986122	979427	973628	968513
42	—	$\sqrt{20}$	065051	034948	017339	004845	995154	987236	980541	974742	969626
—	41	$\sqrt{21}$	066111	036008	018399	005905	996214	988296	981601	975802	970687
51	—	$\sqrt{26}$	070748	040645	023036	010542	000851	992933	986238	980439	975324
—	42	$\sqrt{28}$	072358	042255	024646	012152	002461	994543	987848	982049	976934
52	—	$\sqrt{29}$	073120	043017	025408	012914	003223	995305	988610	982811	977696
—	51	$\sqrt{31}$	073856	043753	026144	013650	003959	996041	989346	983547	978432
53	—	$\sqrt{34}$	076574	046471	028862	016368	006677	998759	992064	986265	981150
61	43	$\sqrt{37}$	078410	048307	030698	018204	008513	000595	993900	988101	982986
—	52	$\sqrt{39}$	079553	049450	031841	019347	009656	001738	995043	989244	984129
62	—	$\sqrt{40}$	080103	050000	032391	019897	010206	002288	995593	989794	984679
54	—	$\sqrt{41}$	080639	050536	032927	020433	010742	002824	996129	990330	985215
—	61	$\sqrt{43}$	081673	051570	033961	021467	011776	003858	997163	991364	986249
63	—	$\sqrt{45}$	082660	052557	034948	022454	012763	004845	998150	992351	987236
71	—	$\sqrt{50}$	084948	054845	037236	024742	015051	007133	000438	994639	989524
64	62	$\sqrt{52}$	085800	055697	038088	025594	015903	007985	001290	995491	990376
72	—	$\sqrt{53}$	086214	056111	038502	026008	016317	008399	001704	995905	990790
—	71	$\sqrt{57}$	087793	057690	040081	027587	017896	009978	003283	997484	992369
73	—	$\sqrt{58}$	088171	058068	040459	027965	018274	010356	003661	997862	992747
65	54	$\sqrt{61}$	089266	059163	041554	029060	019369	011451	004756	998957	993842
—	63	$\sqrt{63}$	089967	059864	042255	029761	020070	012152	005457	999658	994543
81 74	—	$\sqrt{65}$	090645	060542	042933	030439	020748	012830	006135	000336	995221

Regul. Tetrag. pq	Hexag. pq	$\sqrt{p^2+q^2}$ $\sqrt{p^2+qp+q^2}$	$\lg\sqrt{\quad}$	$\lg\frac{1}{2}\sqrt{\quad}$	$\lg\frac{1}{3}\sqrt{\quad}$	$\lg\frac{1}{4}\sqrt{\quad}$	$\lg\frac{1}{5}\sqrt{\quad}$	$\lg\frac{1}{6}\sqrt{\quad}$	$\lg\frac{1}{7}\sqrt{\quad}$	$\lg\frac{1}{8}\sqrt{\quad}$	$\lg\frac{1}{9}\sqrt{\quad}$
—	72	$\sqrt{67}$	091303	061200	043591	031097	021406	013488	006793	000994	995879
82	—	$\sqrt{68}$	091625	061522	043913	031419	021728	013810	007115	001316	996201
83	81	$\sqrt{73}$	093166	063063	045454	032960	023269	015351	008656	002857	997742
75	—	$\sqrt{74}$	093461	063358	045749	033255	023564	015646	008951	003152	998037
—	64	$\sqrt{76}$	094040	063937	046328	033834	024143	016225	009530	003731	998616
—	73	$\sqrt{79}$	094881	064778	047169	034675	024984	017066	010371	004572	999457
84	—	$\sqrt{80}$	095154	065051	047442	034948	025257	017339	010644	004845	999730
91	—	$\sqrt{82}$	095690	065587	047978	035484	025793	017875	011180	005381	000266
—	82	$\sqrt{84}$	096214	066111	048502	036008	026317	018399	011704	005905	000790
92	—	$\sqrt{85}$	096471	066368	048759	036265	026574	018656	011961	006162	001047
85	—	$\sqrt{89}$	097469	067366	049757	037263	027572	019654	012959	007160	002045
93	—	$\sqrt{90}$	097712	067609	050000	037506	027815	019897	013202	007403	002288
—	65 91	$\sqrt{91}$	097952	067849	050240	037746	028055	020137	013442	007543	002528
—	74	$\sqrt{93}$	098424	068321	050712	038218	028527	020609	013914	008115	003000
94	—	$\sqrt{97}$	099338	069235	051626	039132	029441	021523	014828	009029	003914
10 ¹	—	$\sqrt{101}$	100216	070113	052504	040010	030319	022401	015706	009907	004792
—	92	$\sqrt{103}$	100642	070539	052930	040436	030745	022827	016132	010333	005218
10 ²	—	$\sqrt{104}$	100851	070748	053139	040645	030954	023036	016341	010542	005427
95	—	$\sqrt{106}$	101265	071162	053553	041059	031368	023450	016755	010956	005841
10 ³	75	$\sqrt{109}$	101871	071768	054159	041665	031974	024056	017361	011562	006447
—	10 ¹	$\sqrt{111}$	102266	072133	054554	042060	032369	024451	017756	011957	006842
—	84	$\sqrt{112}$	102461	072358	054749	042155	032564	024646	017951	012152	007037
87	—	$\sqrt{113}$	102654	072551	054942	042448	032757	024839	018144	012345	007230
10 ⁴	—	$\sqrt{116}$	103223	073120	055511	043017	033326	025408	018713	012914	007799
9 ⁶	93	$\sqrt{117}$	103409	073306	055697	043203	033512	025594	018899	013100	007985
—	10 ²	$\sqrt{124}$	104671	074568	056959	044465	034774	026856	020161	014362	009247
10 ⁵	—	$\sqrt{125}$	104845	074742	057133	044639	034948	027030	020335	014536	009421
—	76	$\sqrt{127}$	105190	075087	057478	044984	035293	027375	020680	014881	009766
—	85	$\sqrt{129}$	105529	075426	057817	045323	035632	027714	021019	015220	010105
97	—	$\sqrt{130}$	105697	075594	057985	045491	035800	027882	021187	015388	010273
—	94	$\sqrt{133}$	106192	076089	058480	045986	036295	028377	021682	015883	010768
10 ⁶	—	$\sqrt{136}$	106677	076574	058965	046471	036780	028862	022167	016368	011253
—	10 ³	$\sqrt{139}$	107150	077047	059438	046944	037253	029335	022640	016841	011726
98	—	$\sqrt{145}$	108068	077965	060356	047862	038171	030253	023558	017759	012644
—	86	$\sqrt{148}$	108513	078410	060801	048307	038616	030698	024003	018204	013089
10 ⁷	—	$\sqrt{149}$	108659	078556	060947	048453	038762	030844	024149	018350	013235
—	95	$\sqrt{151}$	108949	078846	061237	048743	039052	031134	024439	018640	013525
—	10 ⁴	$\sqrt{156}$	109656	079553	061944	049450	039759	031841	025146	019347	014232
10 ⁸	—	$\sqrt{164}$	110742	080639	063030	050536	040845	032927	026232	020433	015318
—	96	$\sqrt{171}$	111650	081547	063938	051444	041753	033835	027140	021341	016226
—	10 ⁵	$\sqrt{175}$	112152	082049	064440	051946	042257	034337	027642	021843	016728
10 ⁹	—	$\sqrt{181}$	112884	082781	065172	052678	042987	035069	028374	022575	017460
—	97	$\sqrt{193}$	114278	084175	066566	054072	044381	036463	029768	023969	018854
—	98	$\sqrt{217}$	116823	086720	069111	056617	046926	039008	032313	026514	021399
—	10 ⁷	$\sqrt{219}$	117022	086919	069310	056816	047125	039207	032512	026713	021598
—	10 ⁸	$\sqrt{244}$	119369	089266	071657	059163	049472	041554	034859	029060	023945
—	10 ⁹	$\sqrt{271}$	121648	091545	073936	061442	051751	043833	037138	031339	026224

Tabelle der rationalen Brüche.

Die folgende Tabelle thut gute Dienste bei Ausrechnung der Winkel aus den Symbolen, sowie bei Bestimmung rationaler Indices aus den gerechneten Decimalbrüchen.

Zahl	Decim.-Bruch	log	log recip.	Re-ciprok
$\frac{1}{2}$	0.5000	969897	030103	2
$\frac{1}{3}$	0.3333 0.6667	952288 982391	047712 017609	3 2
$\frac{1}{4}$	0.2500 0.7500	939794 987506	060206 012494	4 3
$\frac{1}{5}$	0.2000 0.4000 0.6000 0.8000	930103 960206 977815 990309	069897 039794 022185 009691	5 4 3 2
$\frac{1}{6}$	0.1667 0.8333	922185 992082	077815 007918	6 5
$\frac{1}{7}$	0.1429 0.2857 0.4286	915490 945593 963202	084510 054407 036798	7 6 5
$\frac{1}{8}$	0.5714 0.7143 0.8572	975696 985387 993305	024304 014613 006695	7 6 5
$\frac{1}{9}$	0.1250 0.3750 0.6250 0.8750	909691 957403 979588 994201	090309 042597 020412 005799	8 7 6 5
$\frac{1}{10}$	0.1111 0.2222 0.4444	904576 934679 964782	095424 065321 035218	9 8 7
$\frac{1}{11}$	0.5556 0.7778 0.8889	974473 989086 994885	025527 010914 005115	9 8 7
$\frac{3}{10}$	0.3000 0.7000 0.9000	947712 984510 995424	052288 015490 004576	10 9 8
$\frac{1}{11}$	0.0909 0.1818 0.2727	895861 925964 943573	104139 074036 056427	11 10 9
$\frac{4}{11}$	0.3636 0.4545 0.5455	956067 965758 973676	043933 034242 026324	11 10 9
$\frac{7}{11}$	0.6364 0.7273 0.8182 0.9091	980371 986170 991285 995861	019629 013830 008715 004139	11 10 9 8

Zahl	Decim.-Bruch	log	log recip.	Re-ciprok
$\frac{1}{12}$	0.0833 0.4167 0.5833 0.9167	892082 961979 976592 996221	107918 038021 023408 003779	12 11 10 9
$\frac{1}{13}$	0.0769 0.1538 0.2308	888606 918709 936318	111394 081291 063682	13 12 11
$\frac{4}{13}$	0.3077 0.3846 0.4615	948812 958603 966421	051188 041497 033579	13 12 11
$\frac{7}{13}$	0.5385 0.6154 0.6923	973116 978915 984030	026884 021085 015970	13 12 11
$\frac{10}{13}$	0.7692 0.8462 0.9231	988606 992745 996524	011394 007255 003476	13 12 11
$\frac{1}{14}$	0.0714 0.2143 0.3571	885387 933099 955284	114613 066901 044716	14 13 12
$\frac{9}{14}$	0.6429 0.7857 0.9286	980811 989526 996781	019189 010474 003219	14 13 12
$\frac{1}{15}$	0.0667 0.1333 0.2667	882391 912494 942597	117609 087506 057403	15 14 13
$\frac{7}{15}$	0.4666 0.5333 0.7333	966901 972700 986530	033099 027300 013470	15 14 13
$\frac{13}{15}$	0.8666 0.9333	993785 997004	006215 002996	15 14
$\frac{1}{15}$	0.0625 0.1875 0.3125	879588 927300 949485	120412 072700 050515	16 15 14
$\frac{7}{16}$	0.4375 0.5625 0.6875	964098 975012 983727	035902 024988 016273	16 15 14
$\frac{13}{16}$	0.8125 0.9325	990982 997197	009018 002803	16 15
$\frac{1}{17}$	0.0588 0.0556	876955 874473	123045 125527	17 16

Winkel φ

Im regulären, tetragonalen, hexagonalen System ist φ unabhängig vom Element der Krystallart.

$p:q$ $p < q$	φ tetrag.	φ hexag.
1:1	45° 00	30° 00
1:2	26 33'9	19 06'4
1:3	18 26'1	13 53'8
2:3	33 41'4	23 24'8
1:4	14 02'2	10 53'6
3:4	36 52'2	25 17'1
1:5	11 18'6	8 56'9
2:5	21 48'1	16 06'1
3:5	30 57'8	21 47'2
4:5	38 39'6	26 19'6
1:6	9 27'7	7 35'3
5:6	39 48'3	26 59'7
1:7	8 07'8	6 35'2
2:7	15 56'7	12 13'0
3:7	23 11'9	16 59'7
4:7	29 44'7	21 03'1
5:7	35 32'2	24 30'2
6:7	40 36'1	27 27'4
1:8	7 07'5	5 49'0
3:8	20 33'3	15 17'7
5:8	32 00'3	22 24'6
7:8	41 11'1	27 47'7
1:9	6 20'4	5 12'5
2:9	12 31'7	9 49'6
4:9	23 57'7	17 28'8
5:9	29 03'3	20 38'0
7:9	37 52'5	25 52'3
8:9	41 38'0	28 03'3
1:10	5 42'6	4 42'8
3:10	16 41'9	12 43'8
7:10	34 59'5	24 11'0
9:10	41 59'2	28 15'5
1:11	5 11'7	4 18'4
2:11	10 18'3	8 12'8
3:11	15 15'3	11 44'5
4:11	19 59'0	14 55'2
5:11	24 26'7	17 47'0
6:11	28 36'5	20 21'7
7:11	32 28'3	22 41'3
8:11	36 01'7	24 47'5
9:11	39 17'3	26 41'7

$p:q$ $p < q$	φ tetrag.	φ hexag.
10:11	42° 16'4	28° 25'5
1:12	4 45'8	3 58'4
5:12	22 37'2	16 37'6
7:12	30 15'4	21 21'6
11:12	42 30'6	28 33'7
1:13	4 24'7	3 40'2
2:13	8 44'8	7 03'1
3:13	12 59'7	10 09'5
4:13	17 06'2	13 00'2
5:13	21 04'9	15 36'5
6:13	24 46'5	17 59'5
7:13	28 18'1	20 10'4
8:13	31 36'4	22 10'3
9:13	34 41'7	24 00'4
10:13	37 34'1	25 41'6
11:13	40 14'2	27 14'7
12:13	42 42'5	28 40'6
1:14	4 05'1	3 25'1
3:14	12 05'7	9 30'9
5:14	19 39'2	14 42'3
9:14	32 44'1	22 50'8
11:14	38 09'4	26 02'2
13:14	42 52'7	28 46'5
1:15	3 49'3	3 11'9
2:15	7 35'6	6 10'7
4:15	14 55'9	11 31'0
7:15	25 01'0	18 08'6
8:15	28 04'3	20 02'0
11:15	36 15'2	24 55'4
13:15	40 54'8	27 38'3
14:15	43 01'5	28 51'5
1:16	3 34'6	3 00'2
3:16	10 38'4	8 26'6
5:16	17 21'2	13 10'4
7:16	23 37'7	17 16'2
9:16	29 21'4	20 49'0
11:16	34 30'5	23 53'8
13:16	39 05'6	26 34'9
15:16	43 09'1	28 56'0
1:17	3 22'0	2 50'0
2:17	6 42'6	5 29'8

$p:q$ $p < q$	φ tetrag.	φ hexag.
3:17	10° 00'4	7° 59'6
4:17	13 14'4	10 20'0
5:17	16 23'4	12 31'2
6:17	19 26'4	14 33'8
7:17	22 22'8	16 28'4
8:17	25 12'1	18 15'5
9:17	27 53'8	19 55'6
10:17	30 27'9	21 29'2
11:17	32 54'3	22 56'8
12:17	35 13'0	24 18'9
13:17	37 24'3	25 35'9
14:17	39 28'3	26 48'1
15:17	41 25'4	27 56'0
16:17	43 15'8	28 59'1
1:18	3 10'8	2 40'8
5:18	15 31'4	11 55'6
7:18	21 15'0	15 44'8
11:18	31 25'6	22 04'0
13:18	35 50'2	24 40'7
17:18	43 21'8	29 03'2
1:19	3 00'8	2 33'4
2:19	6 00'5	4 57'0
3:19	8 57'3	7 13'4
4:19	11 53'3	9 22'0
5:19	14 44'6	11 23'2
6:19	17 31'5	13 17'3
7:19	20 13'5	15 04'7
8:19	22 50'0	16 45'8
9:19	25 20'8	18 20'9
10:19	27 45'5	19 50'5
11:19	30 04'1	21 14'8
12:19	31 41'0	22 34'3
13:19	34 22'8	23 49'3
14:19	36 23'1	25 00'1
15:19	38 17'4	26 06'8
16:19	40 06'1	27 10'0
17:19	40 53'1	28 09'8
18:19	43 31'1	29 06'3
1:20	2 52'0	2 25'3
1:21	2 43'6	2 18'4
1:22	2 39'8	2 12'2

Revision der Elemente und Symbole. Zehn Jahre sind seit dem Erscheinen des ersten Bandes des Index der Krystallformen verflossen und über fünf Jahre seit dem Abschluss dieses Buches. Der Gedanke lag nahe, mit der Herstellung der Winkeltabellen eine Revision und Ergänzung der Elemente und Symbole des Index bis auf heute durchzuführen. Diese Ergänzung ist in der Hauptsache geschehen. Ich habe die neuen Beobachtungen an bekannten wie neuen Arten verfolgt und in meinem Handexemplar des Index vermerkt, ebenso Correcturen und Nachträge zu diesem Buch verzeichnet. Diese wurden bei Herstellung der Winkeltabellen benutzt. Ferner wurden die neueren Bände der wichtigsten Zeitschriften excerptirt. Besonders sorgfältig wurde auch E. S. Dana's ausgezeichnetes System of Mineralogy, 1892, benutzt.

Jedoch wurde von dem Streben, Vollständigkeit zu erzielen, abgesehen; ebenso wurden Formen weggelassen, bei denen die Entscheidung über Aufnahme eingehendere kritische Untersuchung erfordert hätte. Ich glaubte der Sache besser zu dienen, indem ich mich hier beschränkte. Das Eingehen in alle Einzelheiten hätte viel Zeit erfordert und bei geringem Gewinn das Zustandekommen dieses ohnehin grossen Unternehmens gefährdet.

Angabe der Winkel auf halbe Minuten. Die Ausrechnung erfolgte auf die erste Decimale der Minuten; doch erschien es den Bedürfnissen am besten entsprechend, diese auf $\frac{1}{2}$ Minute abzurunden. Für die Werthe in der Nähe von $\frac{1}{2}$ wurde ein Punkt gesetzt und zwar für 0.3, 0.4, 0.5, 0.6, 0.7; dagegen wurden 0.8, 0.9 für 1 gerechnet, 0.1, 0.2 weggelassen.

Controle. Sie bezog sich auf die richtige Einführung der Elemente und Symbole, dann auf die richtige Ausführung der Rechnung, ferner auf den Vergleich der berechneten Winkel mit den publicirten Winkelangaben, endlich auf Revision von Reinschrift und Druck. Alle diese Arten der Controle wurden sorgfältig angewendet. Wenn sich trotzdem noch unrichtige Daten finden, so wolle man sie der Grösse des Unternehmens zu Gute halten und den Verfasser durch Mittheilung aufgefundener Fehler verpflichten.

Möge es dem vorliegenden neuen Werkzeug krystallographischer Arbeit vergönnt sein, kräftig zur Förderung unserer Wissenschaft mitzuwirken.

Heidelberg, 16. Juli 1896.

Winkeltabellen.

Erklärung der Zeichen.

Die Bedeutung der Zeichen φ ϱ ξ_0 η_0 ξ η x y d und ihrer Vorzeichen ist aus dem bestehenden stereographischen und gnomonischen Bild ersichtlich.

Die Längen x y d sind für

$$h=1$$

berechnet (vergl. Seite 5). Zur Vermeidung von Verwechslungen mit x y d für $r_0=1$ wurde im monoklinen und triklinen System, wo h von r_0 verschieden ist, x' y' d' für x y d ($h=1$) gesetzt.

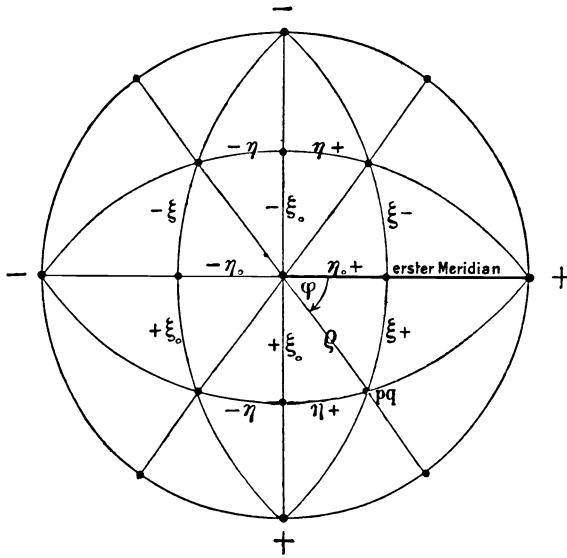


Fig. 13. Stereographische Projection.

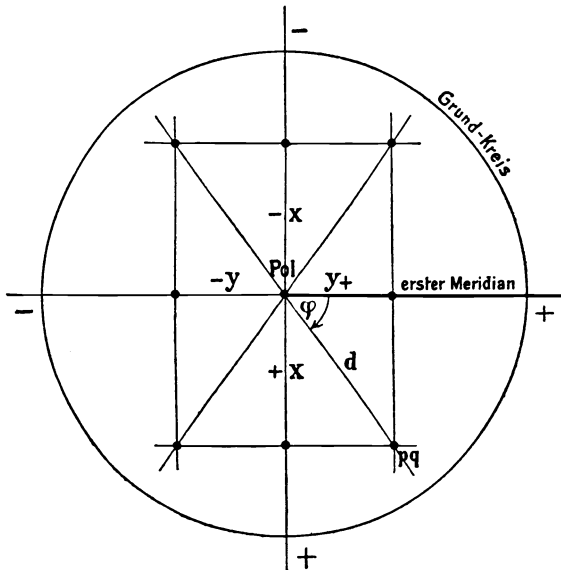


Fig. 14. Gnomonische Projection.
Radius des Grundkreises = $h=1$.

Abichit.

Monoklin.

$a = 1.9069$	$\lg a = 0.28033$	$\lg a_o = 969479$	$\lg p_o = 0.30521$	$a_o = 0.4952$	$p_o = 2.0193$
$c = 3.8507$	$\lg c = 0.58554$	$\lg b_o = 941446$	$\lg q_o = 0.57954$	$b_o = 0.2597$	$q_o = 3.7980$
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} \begin{matrix} 80^\circ 30' \\ 180 - \beta \end{matrix}$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 999400$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 921761$	$\lg \frac{p_o}{q_o} = 972567$	$h = 0.9863$	$e = 0.1650$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	c	o	001	90° 00	9° 30	9° 30	0° 00	9° 30	0° 00	0.1673	o	0.1673
2	a	∞o	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	m	∞	110	28 00	"	"	90 00	28 00	62 00	0.5317	∞	"
4	r	$+\frac{10}{3}$	101	90 00	65 42	65 42	0 00	65 42	0 00	2.2147	o	2.2147
5	s	$-\frac{20}{3}$	302	90 00	71 00	71 00	"	71 00	"	2.9037	"	2.9037
6	t	-1	111	26 01	76 52	61 59	75 27	25 18	61 04	1.8801	3.8506	4.2852
7	p	$-\frac{1}{3}$	113	21 52	54 08	27 15	52 04	17 34	48 46	0.5151	1.2835	1.3831

Adamin.

Rhombisch.

$a = 0.9733$	$\lg a = 998825$	$\lg a_o = 013346$	$\lg p_o = 986654$	$a_o = 1.3597$	$p_o = 0.7354$
$c = 0.7158$	$\lg c = 985479$	$\lg b_o = 014521$	$\lg q_o = 985479$	$b_o = 1.3970$	$q_o = 0.7158$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	b	$o\infty$	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞o	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	k	4 ∞	410	76 19	"	"	90 00	76 19	13 40	4.1097	∞	"
5	m	2 ∞	210	64 03	"	"	"	64 03	25 57	2.0548	"	"
6	n	$\frac{5}{3}\infty$	530	59 43	"	"	"	59 43	30 17	1.7124	"	"
7	r	∞	110	45 46	"	"	"	45 46	44 13	1.0274	"	"
8	s	$\infty\frac{2}{3}$	350	31 39	"	"	"	31 39	58 21	0.6164	"	"
9	t	$\infty 2$	120	27 11	"	"	"	27 11	62 48	0.5137	"	"
10	l	01	011	0 00	35 35	0 00	35 35	0 00	35 35	o	0.7158	0.7158
11	f	$\frac{5}{2}o$	506	90 00	31 30	31 30	0 00	31 30	0 00	0.6128	o	0.6128
12	d	10	101	"	36 20	36 20	"	36 20	"	0.7354	"	0.7354
13	o	1	111	45 46	45 44	"	35 35	30 53	29 58	"	0.7158	1.0263

Adelit.

Monoklin.

a = 1'0989	lg a = 004096	lg a ₀ = 984667	lg p ₀ = 015333	a ₀ = 0'7025	p ₀ = 1'4234
c = 1'5642	lg c = 019429	lg b ₀ = 980571	lg q ₀ = 017546	b ₀ = 0'6393	q ₀ = 1'4978
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 73^{\circ}15$ 180 - β	$\lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 998117$ lg sin μ	$\lg e = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 945969$ lg cos μ	lg P ₀ = 997787	h = 0'9576	e = 0'2882

N ^o .	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ρ
1	c	0	001	90° 00	16° 45	16° 45	0° 00	16° 45	0° 00	0'3010	0	0'3010
2	a	∞0	100	"	90 00	90 00	"	90 00	"	∞	∞	∞
3	M	∞	110	43 32'	"	"	"	43 32'	46 27'	0'9503	"	"
4	f	01	011	10 53'	57 53	16 45	57 24'	9 12'	56 16	0'3010	1'5642	1'5929
5	d	-2	221	40 30	76 20'	69 29	72 16'	39 07'	48 38'	2'6718	3'1286	4'1141

Aeschnit.

Rhombisch.

a = 0'4816	lg a = 968269	lg a ₀ = 985500	lg p ₀ = 014500	a ₀ = 0'7161	p ₀ = 1'3963
c = 0'6725	lg c = 982769	lg b ₀ = 017231	lg q ₀ = 982769	b ₀ = 1'4870	q ₀ = 0'6725

N ^o .	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d = tg ρ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	0∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	64 17	"	"	90 00	64 17	25 43	2'0764	∞	"
5	t	∞ $\frac{5}{3}$	350	51 15	"	"	"	51 15	38 45	1'2458	"	"
6	r	∞2	120	46 04'	"	"	"	46 04'	43 55'	1'0382	"	"
7	n	∞3	130	34 41'	"	"	"	34 41'	55 18'	0'6921'	"	"
8	v	02	021	0 00	53 22	0 00	53 22	0 00	53 22	0	1'3450	1'3450
9	d	10	101	90 00	54 23'	54 23'	0 00	54 23'	0 00	1'3963'	0	1'3963
10	o	1	111	64 17	57 10	"	33 55	49 12'	21 23	"	0'6725	1'5498

Akanthit.

Rhombisch.

a = 0.6886	lg a = 983797	lg a ₀ = 984037	lg p ₀ = 015963	a ₀ = 0.6924	p ₀ = 1.4442
c = 0.9945	lg c = 999760	lg b ₀ = 000240	lg q ₀ = 999760	b ₀ = 1.0055	q ₀ = 0.9945

N _o .	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d = tg ρ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	∞∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	τ	2∞	210	71 00	"	"	90 00	71 00	19 00	2.9044	∞	"
5	m	∞	110	55 27	"	"	"	55 27	34 33	1.4522	"	"
6	a	∞2	120	35 59	"	"	"	35 59	54 01	0.7261	"	"
7	d	01	011	0 00	44 50'	0 00	44 50'	0 00	44 50'	0	0.9945	0.9945
8	v	3/4 0	103	90 00	25 42'	25 42'	0 00	25 42'	0 00	0.4814	0	0.4814
9	o	10	101	"	55 18	55 18	"	55 18	"	1.4442	"	1.4442
10	γ	2/5 0	504	"	61 01	61 01	"	61 01	"	1.8052'	"	1.8052
11	u	20	201	"	70 54	70 54	"	70 54	"	2.8884	"	2.8884
12	e	30	301	"	77 00	77 00	"	77 00	"	4.3326	"	4.3326
13	x	1/3 0	113	55 27	30 18'	25 42'	18 20'	24 33'	16 38	0.4814	0.3315	0.5845
14	p	1	111	"	60 18	55 18	44 50'	45 41'	29 31	1.4442	0.9945	1.7537
15	z	2/5	554	"	65 28'	61 01	51 11	48 32'	31 04	1.8052'	1.2431	2.1918
16	k	12	121	35 59	67 52	55 18	63 18'	32 58	48 33	1.4442	1.9890	2.4580
17	s	13	131	25 50	73 12'	"	71 28	24 39	59 31	"	2.9834	3.3147
18	ω	14	141	19 57	76 42'	"	75 53'	19 24	66 10'	"	3.9780	4.2320
19	π	16	161	13 36'	80 45	"	80 29	13 25'	73 36	"	5.9669	6.1391
20	μ	2/3 1	122	35 59	50 52	35 50	44 50'	27 07	38 52'	0.7221	0.9945	1.2290
21	n	21	211	71 00	71 52'	70 54	"	63 58'	18 01'	2.8884	"	3.0548
22	δ	24	241	35 59	78 30	"	75 53'	35 09	52 27'	"	3.9780	4.9161
23	θ	2/3 2	163	13 36'	63 57'	25 42'	63 18'	12 12	60 50'	0.4814	1.9890	2.0464
24	χ	2/3 4	214	71 00	37 22'	35 50	13 57'	35 01'	11 23'	0.7221	0.2486	0.7637
25	β	1/3 0	152	16 11'	68 53	"	68 05'	15 05	63 36'	"	2.4862	2.5890
26	r	1/3 1	123	35 59	39 20	25 42'	33 32'	21 51'	30 51	0.4814	0.6630	0.8194
27	λ	2/3 2	143	19 57	54 40	"	52 58'	16 10	50 04	"	1.3260	1.4107
28	ε	1/3 0	183	10 17	69 39	"	69 20'	9 38	67 18	"	2.6520	2.6959
29	h	1/3 1	125	35 59	26 10'	16 06'	21 41'	15 01'	20 55	0.2888'	3.9780	0.4916
30	l	2/3 2	534	67 33	62 53'	61 01	36 43	55 21	19 52	1.8052'	0.7459	1.9533

Alaun.

(Kali-Alaun. Ammoniak-Alaun.)

Regulär.

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ 0\infty \end{array} \right.$	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
			010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
2	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	012	"	26 34	"	26 34	"	26 34	"	0'5000	0'5000
			021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
			120	26 34	90 00	90 00	90 00	26 34	"	0'5000	∞	∞
3	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
4	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112	"	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
5	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1.0000	1'4142
6	u	$\left\{ \begin{array}{l} \frac{1}{2} 1 \\ 2 \end{array} \right.$	122	26 34	48 11'	26 34	"	19 28	41 48'	0'5000	"	1'1180
			221	45 00	70 31'	63 26	63 26	41 48'	"	2'0000	2'0000	2'8284

Allaktit.

Monoklin.

a = 0'6128	lga = 978732	lga ₀ = 026383	lg p ₀ = 973617	a ₀ = 1'8357	p ₀ = 0'5447
c = 0'3338	lg c = 952349	lgb ₀ = 047651	lg q ₀ = 952131	b ₀ = 2'9958	q ₀ = 0'3321
$\mu = \left. \begin{array}{l} \\ 180 - \beta \end{array} \right\} 84^\circ 16'$	$\left. \begin{array}{l} \\ \lg \sin \mu \end{array} \right\} 999782$	$\left. \begin{array}{l} \\ \lg \cos \mu \end{array} \right\} 899893$	$\lg \frac{p_0}{q_0} = 021486$	h = 0'9950	e = 0'0998

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	b	0 ∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	g	9 ∞	910	86 07'	"	"	90 00	86 07'	3 52'	14'7603	∞	"
4	k	3 ∞	310	78 30'	"	"	"	78 30'	11 29'	4'9201	"	"
5	l	2 ∞	210	73 02'	"	"	"	73 02'	16 57'	3'2801	"	"
6	f	$\frac{3}{2}\infty$	320	67 52'	"	"	"	67 52'	22 07'	2'4600'	"	"
7	n	$\infty \frac{2}{3}$	110	58 37'	"	"	"	58 37'	31 22'	1'6400'	"	"
8	o	$\infty \frac{4}{3}$	340	50 53'	"	"	"	50 53'	39 06'	1'2300	"	"
9	r	$\infty 5$	150	18 09'	"	"	"	18 09'	71 50'	0'3280	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
10	e	+10	101	90°00	32°56	32°56	0°00	32°56	0°00	0'6477	0	0'6477
11	p	+ $\frac{5}{4}$ 0	504	"	38 07	38 07	"	38 07	"	0'7845	"	0'7845
12	h	-10	101	90 00	24 05	24 05	"	24 05	"	0'4471	"	0'4471
13	d	+1	111	62 44	36 05	32 56	18 27	31 34	15 39	0'6477	0'3338	0'7287
14	i	+1 $\frac{5}{2}$	252	37 49	46 34	"	39 51	26 26	35 00	"	0'8345	1'0564
15	m	+14	141	25 53	56 01	"	53 10	21 13	48 15	"	1'3352	1'4841

Alloklas.

Rhombisch.

$a=0'7356$	$\lg a=986664$	$\lg a_0=012289$	$\lg p_0=987711$	$a_0=1'327$	$p_0=0'7536$
$c=0'5543$	$\lg c=974375$	$\lg b_0=025625$	$\lg q_0=974375$	$b_0=1'804$	$q_0=0'5543$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	b	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	e	01	011	"	29 00	"	29 00	"	29 00	"	0'5543	0'5543
3	f	10	101	90 00	37 00	37 00	0 00	37 00	0 00	0'7535	0	0'7535

Alstonit.

Rhombisch.

$a=0'591$	$\lg a=977159$	$\lg a_0=990295$	$\lg p_0=009705$	$a_0=0'7997$	$p_0=1'2504$
$c=0'739$	$\lg c=986864$	$\lg b_0=013136$	$\lg q_0=986864$	$b_0=1'3532$	$q_0=0'7390$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	a	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	m	∞	110	59 25	"	90 00	"	59 25	30 35	1'6920	"	"
3	k	01	011	0 00	36 28	0 00	36 28	0 00	36 28	0	0'7390	0'7390
4	i	02	021	"	55 55	"	55 55	"	55 55	"	1'4780	1'4780
5	p	1	111	59 25	55 27	51 21	36 28	45 09	24 46	1'2504	0'7390	1'4524
6	h	2	221	"	71 00	68 12	55 55	54 29	28 45	2'5008	1'4780	2'9049

Altait.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{y}$ (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ \infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$

Alunit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1'2523 \quad \lg c = 009770 \quad \lg a_0 = 014085 \quad \lg p_0 = 992162 \quad a_0 = 1'3831 \quad p_0 = 0'8349 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{y}$ (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	d	$\infty 0$	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	e	∞	1120	30 00	"	"	"	30 00	60 00	0'5773	"	"
4	t f	$\begin{matrix} +2 \\ +\frac{2}{3} \end{matrix}$	$\begin{matrix} 2241 \\ 6'6'12'5 \end{matrix}$	"	70 55'	55 20	68 14	28 12	54 56	1'4460	2'5046	2'8920
5	s	$\begin{matrix} +\frac{2}{3} \\ +\frac{2}{3} \end{matrix}$	3364	"	60 02'	40 56'	56 21'	25 40'	48 37	0'8676	1'5027	1'7352
6	r	$\begin{matrix} +1 \\ +\frac{2}{3} \end{matrix}$	1121	"	55 20	35 52	51 23'	24 17	45 25'	0'7230	1'2523	1'4460
7	q	$\begin{matrix} +\frac{2}{3} \\ +\frac{2}{3} \end{matrix}$	6'6'12'7	"	51 06	31 47	47 01'	22 54	42 22'	0'6197	1'0734	1'2395
8	v	$\begin{matrix} +\frac{2}{3} \\ +\frac{2}{3} \end{matrix}$	3364	"	47 19'	28 28	43 12'	21 34	39 32'	0'5423	0'9392	1'0845
9	w	$\begin{matrix} +\frac{2}{3} \\ +\frac{2}{3} \end{matrix}$	7'7'14'9	"	48 21'	29 21	44 15	21 56'	40 20	0'5624	0'9740	1'1247
10	p	$\begin{matrix} +\frac{2}{3} \\ +\frac{2}{3} \end{matrix}$	1'1'2'64	"	1 17'	0 39	1 07	0 39	1 07	0'0113	0'0196	0'0226

Alvit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0'637 \quad \lg c = 980414 \quad \lg a_0 = 019586 \quad a_0 = 1'5699$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{y}$ (Prismen) (x : y)	y	d =tg ϱ
1	a	0 ∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	m	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
3	s	1	111	"	42 01	32 30	32 30	28 15	28 15	0'6370	0'6370	0'9008

Amalgam.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
		∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	a	0 $\frac{1}{3}$	013	"	18 26	"	18 26	"	18 26	"	0'3333	0'3333
		0 $\frac{2}{3}$	031	"	71 34	"	71 34	"	71 34	"	3'0000	3'0000
		∞ $\frac{1}{3}$	130	18 26	90 00	90 00	90 00	18 26	"	0'3333	∞	∞
3	e	0 $\frac{1}{2}$	012	0 00	26 34	0 00	26 34	0 00	26 34	0	0'5000	0'5000
		0 $\frac{2}{2}$	021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
		∞ $\frac{1}{2}$	120	26 34	90 00	90 00	90 00	26 34	"	0'5000	∞	∞
4	d	01	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1.0000
		∞	110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
5	q	$\frac{1}{2}$	112	"	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
		$\frac{1}{12}$	121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
6	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
		$\frac{1}{2}$ 1	122	26 34	48 11'	26 34	"	19 28	41 48'	0'5000	"	1'1180
7	u	$\frac{1}{2}$ 2	221	45 00	70 31'	63 26	63 26	41 48'	"	2'0000	2'0000	2'8284
		$\frac{1}{3}$ $\frac{2}{3}$	123	26 34	36 42	18 26	33 41'	15 30	32 18'	0'3333	0'6667	0'7453
8	x	$\frac{1}{2}$ $\frac{3}{2}$	132	18 26	57 41'	26 34	56 18'	"	53 18	0'5000	1'5000	1'5811
		$\frac{1}{2}$ 23	231	33 41'	74 30	63 26	71 34	32 18'	"	2'0000	3'0000	3'6055

Amarantit.

Triklin.

$p_0 = 0'7467$	$\lambda = 84^\circ 16$	$a = 0'7691$	$\alpha = 95^\circ 38$	$x_0 = 0'0069$	$d = 0'1001$
$q_0 = 0'5784$	$\mu = 88 53$	$b = 1$	$\beta = 90 24$	$y_0 = 0'0999$	$\delta = 3^\circ 56$
$r_0 = 1$	$\nu = 82 43$	$c = 0'5738$	$\gamma = 97 13$	$h = 0'9950$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	3°56'	5°45'	0°24'	5°44'	0°23'	5°44'	0'0069	0'1004	0'1006
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	82 43	"	90 00	"	82 43	7 17	7'818	"	"
4	M	∞∞	110	123 08'	"	"	90 00	56 51'	33 08'	1'5314	"	"
5	d	01	011	0 35	34 17	0 24	34 17	0 20	34 17	0'0069	0'6817	0'6818
6	h	0 $\frac{1}{2}$	012	177 58	10 46'	"	10 46'	0 23	10 46'	"	0'1903	0'1904
7	e	01	011	179 10'	25 41'	"	25 41'	0 21'	25 41'	"	0'4809	0'4810
8	f	02	021	179 37'	46 44'	"	46 44'	0 16'	46 43'	"	1'0622	1'0623
9	x	10	101	75 24'	37 49'	36 55	11 04	36 24	8 53	0'7514	0'1956	0'7764
10	p	11	111	117 10'	40 11	36 55	21 05'	35 02	17 08	0'7514	0'3857	0'8446
11	n	12	121	28 57	57 12.	"	53 38'	24 00'	47 21'	"	1'3583	1'5523
12	o	11	111	51 04'	43 28	36 24'	30 46'	32 21'	25 36'	0'7375	0'5955	0'9479

Amblygonit.

Triklin.

$p_0 = 1.0270$	$\lambda = 67^\circ 38'$	$a = 0.7334$	$\alpha = 108^\circ 51'$	$x_0 = 0.1255$	$d = 0.4006$
$q_0 = 0.7885$	$\mu = 75^\circ 30'$	$b = 1$	$\beta = 97^\circ 48'$	$y_0 = 0.3804$	$\delta = 18^\circ 16'$
$r_0 = 1$	$\nu = 69^\circ 35'$	$c = 0.7633$	$\gamma = 106^\circ 27'$	$h = 0.9162$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	c	o	001	18° 16'	23° 37'	7° 48'	22° 33'	7° 12'	22° 21'	0.1370	0.4152	0.4372
2	a	$\infty 0$	100	69 35	90 00	90 00	90 00	69 35	20 25	2.6865	∞	∞
3	m	∞	110	40 00	"	"	"	40 00	49 59	0.8789	"	"
4	M	$\infty \infty$	110	114 05	"	"	90 00	65 54	34 05	3.2368	"	"
5	z	$\infty \bar{2}$	120	141 41	"	"	"	38 18	51 41	0.7899	"	"
6	e	02	021	174 00	52 42	7 48	52 32	4 46	52 17	0.1370	1.3053	1.3125
7	l	10	101	55 49	55 08	49 54	38 52	42 45	27 26	1.1874	0.8061	1.4352
8	h	10	101	88 29	42 25	42 25	1 23	42 24	1 01	0.9135	0.0242	0.9138

Amphibol.

Monoklin.

$a = 0.5482$	$lg a = 973894$	$lga_0 = 027104$	$lg p_0 = 972896$	$a_0 = 1.8666$	$p_0 = 0.5357$
$c = 0.2937$	$lg c = 946790$	$lgb_0 = 053210$	$lg q_0 = 945291$	$b_0 = 3.4049$	$q_0 = 0.2837$
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 75^\circ 02'$	$lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 998501$	$lge = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 941205$	$lg \frac{p_0}{q_0} = 027605$	$h = 0.9661$	$e = 0.2583$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	c	o	001	90° 00'	14° 58'	14° 58'	0° 00'	14° 58'	0° 00'	0.2673	0	0
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	∞	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	0	0	"
4	n	3∞	310	79 59	"	"	90 00	79 59	10 00	5.6646	∞	"
5	q	2∞	210	75 10	"	"	"	75 10	14 50	3.7764	"	"
6	δ	$\frac{2}{3}\infty$	430	68 20	"	"	"	68 20	21 40	2.5176	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
7	m	∞	110	62° 05'	90° 00'	90° 00'	90° 00'	62° 05'	27° 54'	1:8882	∞	∞
8	e	∞_3	130	32 11	"	"	"	32 11	57 49	0:6294	"	"
9	x	∞_5	150	20 41'	"	"	"	20 41'	69 18'	0:3776	"	"
10	Y	∞_7	170	15 06	"	"	"	15 06	74 54	0:2697	"	"
11	d	01	011	42 18'	21 39'	14 58	16 22	14 23	15 50'	0:2673	0:2937	0:3971
12	z	02	021	24 28	32 50	"	30 26	12 59	29 34'	"	0:5874	0:6454
13	u	03	031	16 53	42 38	"	41 23	11 20'	40 24'	"	0:8811	0:9207
14	s	04	041	12 49	50 18'	"	49 36	9 50	48 37	"	1:1748	1:2048
15	f	+20	201	90 00	54 00	54 00	0 00	54 00	0 00	1:3765	0	1:3765
16	l	+10	101	"	39 25	39 25	"	39 25	"	0:8219	"	0:8219
17	h	+ $\frac{2}{3}$ 0	203	"	32 29'	32 29'	"	32 29'	"	0:6369	"	0:6369
18	w	-10	101	90 00	16 01'	16 01'	"	16 01'	"	0:2872	"	0:2872
19	t	-20	201	"	40 05'	40 05'	"	40 05'	"	0:8417	"	0:8417
20	k	+1	111	70 20	41 07	39 26'	16 22	38 15'	12 47	0:8219	0:2937	0:8728
21	p	+ $\frac{1}{2}$	112	74 54'	29 25'	28 34'	8 21	28 19	7 21	0:5447	0:1468	0:5641
22	r	-1	111	44 21'	22 20	16 01'	16 22	15 24'	15 46	0:2872	0:2937	0:4108
23	o	-2	221	55 05'	45 45	40 05'	30 26	35 58'	24 12	0:8418	0:5874	1:0264
24	y	+1:10	1:10:1	15 38	71 51	39 26'	71 12	14 50'	66 13	0:8219	2:9370	3:0497
25	g	+15	151	29 14	59 17	"	55 45	24 49'	48 36	"	1:4685	1:6828
26	v	+13	131	43 00'	50 18'	"	41 23	31 39'	34 14'	"	0:8811	1:2050
27	P	+12	121	54 27	45 17'	"	30 26	35 19'	24 24'	"	0:5874	1:0102
28	i	-13	131	18 03	42 49'	16 01'	41 23	12 09'	40 15'	0:2774	0:8811	0:9267
29	q	-15	151	11 04	56 14'	"	55 45	9 11	54 41	"	1:4685	1:4963
30	a	- $\frac{3}{2}$	312	75 25	30 15'	29 26'	8 21	29 11	7 17	0:5453	0:1468	0:5833
31	β	+ $\frac{1}{2}$	132	51 02	35 00'	28 34'	23 46'	26 29'	21 09	0:5447	0:4405	0:7005

Analcim.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
		0 ∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
2	e	0 $\frac{1}{2}$	012	"	26 34	"	26 34	"	26 34	"	0:5000	0:5000
		02	021	"	63 26	"	63 26	"	63 26	"	2:0000	2:0000
		∞_2	120	26 34	90 00	90 00	90 00	26 34	"	0:5000	∞	∞
3	d	01	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1:0000	1:0000
		∞	110	45 00	90 00	90 00	90 00	45 00	"	1:0000	∞	∞
4	q	$\frac{1}{2}$	112	"	35 16	26 34	26 34	24 05'	24 05'	0:5000	0:5000	0:7071
		12	121	26 34	65 54'	45 00	63 26	"	54 44	1:0000	2:0000	2:2360
5	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1:0000	1:4142
6	w	$\frac{2}{3}$ 1	233	33 41'	50 14'	33 41'	"	25 14'	39 45'	0:6667	"	1:2019
		$\frac{3}{2}$	332	45 00	64 45'	56 18'	56 18'	39 45'	"	1:5000	1:5000	2:1213

Anatas.

Tetragonal.

$$\left. \begin{array}{l} c \\ p_0 \end{array} \right\} = 1'7771 \quad \lg c = 024971 \quad \lg a_0 = 975029 \quad a_0 = 0'5627$$

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{y}$ (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0 ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
4	o	0 $\frac{1}{2}$	017	0 00	14 14'	0 00	14 14'	0 00	14 14'	0	0'2538	0'2538
5	u	0 $\frac{1}{3}$	015	"	19 34	"	19 34	"	19 34	"	0'3554	0'3554
6	u ₁	0 $\frac{5}{19}$	0'5'19	"	25 04	"	25 04	"	25 04	"	0'4676	0'4676
7	x	0 $\frac{1}{3}$	013	"	30 38'	"	30 38'	"	30 38'	"	0'5923	0'5923
8	e	01	011	"	60 38	"	60 38	"	60 38	"	1'7771	1'7771
9	q	02	021	"	74 17	"	74 17	"	74 17	"	3'5541	3'5541
10	d	03	031	"	79 22'	"	79 22'	"	79 22'	"	5'3312	5'3312
11	γ	0 $\frac{2}{3}$	092	"	82 52'	"	82 52'	"	82 52'	"	7'9968	7'9968
12	G	0 $\frac{1}{2}$ $\frac{3}{9}$	0'13'2	"	85 03	"	85 03	"	85 03	"	11'5510	11'5510
13	g	07	071	"	85 24'	"	85 24'	"	85 24'	"	12'4397	12'4397
14	E	08	081	"	85 58'	"	85 58'	"	85 58'	"	14'2167	14'2167
15	ϱ	$\frac{1}{40}$	1'1'40	45 00	3 35'	2 32'	2 32'	2 32'	2 32'	0'0444	0'0444	0'0628
16	ν	$\frac{1}{28}$	1'1'28	"	5 07'	3 38'	3 38'	3 37'	3 37'	0'0634	0'0634	0'0897
17	μ	$\frac{1}{14}$	1'1'14	"	10 10'	7 14'	7 14'	7 10'	7 10'	0'1269	0'1269	0'1795
18	l	$\frac{1}{10}$	1'1'10	"	14 06'	10 04'	10 04'	9 55'	9 55'	0'1777	0'1777	0'2513
19	a	$\frac{1}{9}$	119	"	15 36'	11 10'	11 10'	10 57'	10 57'	0'1974	0'1974	0'2792
20	π	$\frac{1}{8}$	118	"	17 26'	12 31'	12 31'	12 14'	12 14'	0'2221	0'2221	0'3141
21	v	$\frac{1}{7}$	117	"	19 44'	14 14'	14 14'	13 49'	13 49'	0'2538	0'2538	0'3589
22	V	$\frac{3}{20}$	3'3'20	"	20 39'	14 55'	14 55'	14 26'	14 26'	0'2665	0'2665	0'3770
23	i	$\frac{1}{6}$	116	"	22 43'	16 30'	16 30'	15 51'	15 51'	0'2962	0'2962	0'4189
24	r	$\frac{1}{5}$	115	"	26 41'	19 34'	19 34'	18 31'	18 31'	0'3554	0'3554	0'5026
25	f	$\frac{1}{4}$	114	"	32 08'	23 57'	23 57'	22 06'	22 06'	0'4442	0'4442	0'6283
26	F	$\frac{1}{19}$	5'5'19	"	33 28'	25 04'	25 04'	22 57'	22 57'	0'4676	0'4676	0'6614
27	n	$\frac{2}{7}$	227	"	35 41'	26 55'	26 55'	24 21'	24 21'	0'5077	0'5077	0'7180
28	z	$\frac{1}{3}$	113	"	39 57'	30 38'	30 38'	27 00'	27 00'	0'5923	0'5923	0'8377
29	ψ	$\frac{2}{5}$	225	"	45 09'	35 24'	35 24'	30 05'	30 05'	0'7108	0'7108	1'0052
30	Ψ	$\frac{5}{12}$	5'5'12	"	46 19'	36 31'	36 31'	30 45'	30 45'	0'7404	0'7404	1'0471
31	χ	$\frac{3}{7}$	337	"	47 07'	37 17'	37 17'	31 12'	31 12'	0'7616	0'7616	1'0770
32	X	$\frac{5}{11}$	5'5'11	"	48 48'	38 56'	38 56'	32 08'	32 08'	0'8078	0'8078	1'1423
33	k	$\frac{1}{2}$	112	"	51 29'	41 37'	41 37'	33 35'	33 35'	0'8885	0'8885	1'2566
34	ε	$\frac{3}{5}$	335	"	56 27'	46 50'	46 50'	36 06'	36 06'	1'0662	1'0662	1'5079
35	η	$\frac{2}{3}$	223	"	59 10'	49 50'	49 50'	37 23'	37 23'	1'1847	1'1847	1'6754

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
36	p	1	111	45°00	68°18	60°38	60°38	41°04'	41°04'	1'7771	1'7771	2'5132
37	P	$\frac{15}{8}$	15'15'8	"	78 01	73 17'	73 17'	43 46	43 46	3'3320	3'3320	4'7121
38	w	2	221	"	78 45'	74 17	74 17	43 54'	43 54'	3'5541	3'5541	5'0263
39	δ	3	331	"	82 26'	79 22'	79 22'	44 30'	44 30'	5'3312	5'3312	7'5395
40	τ	$\frac{1}{3}$ 1	133	18 26	61 54'	30 38'	60 38	16 12	56 49	0'5923	1'7771	1'8732
41	?y	$\frac{1}{3}$ $\frac{3}{4}$	4'9'12	23 57'	55 34	"	53 07	19 34	48 54'	"	1'3328	1'4585
42	β	$\frac{1}{3}$ $\frac{5}{6}$	256	21 48	57 55	"	55 58	18 20'	51 52'	"	1'4809	1'5950
43	h	$\frac{1}{3}$ $\frac{5}{3}$	153	11 18'	71 41	"	71 20'	10 44	68 34'	"	2'9618	3'0204
44	t	$\frac{1}{3}$ 7	1'21'3	2 43'	85 24'	"	85 24	2 43	84 39'	"	12'440	12'454
45	φ	$\frac{1}{9}$ $\frac{1}{3}$	139	18 26	31 59	11 10	30 38'	9 38'	30 10	0'1974	0'5923	0'6244
46	H	$\frac{1}{3}$ $\frac{1}{3}$	9'13'39	34 41'	35 46'	22 18	"	19 26	28 43'	0'4101	"	0'7205
47	σ	$\frac{1}{10}$ $\frac{1}{5}$	1'2'10	26 34	21 40'	10 04'	19 34	9 30'	19 17'	0'1777	0'3554	0'3974
48	b	$\frac{2}{3}$ 6	2'18'3	6 20'	84 40'	49 50	84 38'	6 19	81 44	1'1847	10'662	10'7280
49	ω	$\frac{2}{3}$ $\frac{1}{2}$	4'39'6	5 51'	85 04'	"	85 03	5 50	82 22	"	11'551	11'6117
50	ϑ	$\frac{2}{3}$ $\frac{1}{2}$	352	30 58	79 04'	69 26	77 19	30 20'	57 21	2'6656	4'4430	5'1812
51	B	$\frac{3}{2}$ $\frac{1}{2}$	3'17'2	10 00'	86 16	"	86 12'	9 59	79 19'	"	15'105	15'339
52	C	$\frac{3}{20}$ $\frac{1}{4}$	3'5'20	30 58	27 23'	14 55'	23 57'	13 41'	23 14	0'2666	0'4443	0'5181
53	D	$\frac{1}{4}$ $\frac{1}{4}$	1'11'4	5 11'	78 29	23 57'	78 26	5 05'	77 23'	0'4443	4'8870	4'9070
54	s	$\frac{1}{15}$ $\frac{5}{19}$	1'5'19	11 18'	25 30	5 20'	25 04	4 50'	24 58	0'0935	0'4677	0'4769

Andalusit.

Rhomblisch.

a = 0'9861	lg a = 999392	lg a ₀ = 014727	lg p ₀ = 985273	a ₀ = 1'4033	p ₀ = 0'7124
c = 0'7025	lg c = 984665	lg b ₀ = 015335	lg q ₀ = 984665	b ₀ = 1'4235	q ₀ = 0'7025

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	l	2∞	210	63 45'	"	"	90 00	63 45'	26 14'	2'0282	∞	"
5	i	$\frac{3}{2}$ ∞	320	56 41	"	"	"	56 41	33 19	1'5211'	"	"
6	m	∞	110	45 24	"	"	"	45 24	44 36	1'0141	"	"
7	n	∞2	120	26 53	"	"	"	26 53	63 07	0'5070'	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
8	t	$0\frac{1}{3}$	013	0°00	13°11	0°00	13°11	0°00	13°11	0	0'2342	0'2342
9	s	01	011	"	35 05'	"	35 05'	"	35 05'	"	0'7025	0'7025
10	v	$0\frac{5}{4}$	054	"	41 17	"	41 17	"	41 17	"	0'8781	0'8781
11	u	$0\frac{3}{2}$	032	"	46 30	"	46 30	"	46 30	"	1'0538	1'0538
12	z	03	031	"	64 37	"	64 37	"	64 37	"	2'1075	2'1075
13	r	10	101	90 00	35 29	35 29	0 00	35 29	0 00	0'7124	0	0'7124
14	x	$\frac{1}{2}$	112	45 24	26 34'	19 36'	19 21	18 34'	18 18'	0'3562	0'3512'	0'5003
15	p	1	111	"	45 01	35 28	35 05'	30 14'	29 46'	0'7124	0'7025	1'0005
16	k	12	121	26 53	57 35'	"	54 33'	22 26'	48 51	"	1'4050	1'5753

Andorit.

Rhombisch.

a = 0'9776	lg a = 999016	lg a ₀ = 005064	lg p ₀ = 994936	a ₀ = 1'1237	p ₀ = 0.8899
c = 0'8700	lg c = 993952	lg b ₀ = 006048	lg q ₀ = 993952	b ₀ = 1'1495	q ₀ = 0'8700

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	0∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	a	$\infty 0$	100	90 00	0 00	90 00	0 00	90 00	0 00	∞	"	"
3	n	2∞	210	63 57	90 00	"	90 00	63 57	26 03	2'0458	"	"
4	t	$\frac{4}{3}\infty$	430	53 45	"	"	"	53 45	36 15	1'3639	"	"
5	m	$\infty 2$	110	45 39	"	"	"	45 39	44 21	1'0229	"	"
6	l	$\infty \frac{3}{2}$	230	34 17'	"	"	"	34 17'	55 42'	0.6819	"	"
7	d	$\frac{1}{2}0$	102	90 00	23 59'	23 59'	0 00	23 59'	0 00	0'4450	0	0'4450
8	o	$\frac{1}{10}$	101	"	41 40	41 40	"	41 40	"	0'8899	"	0.8899
9	v	$\frac{3}{20}0$	302	"	53 09'	53 09'	"	53 09'	"	1'3352	"	1'3352
10	r	$1\frac{3}{4}$	434	53 45	47 49	41 40	33 07'	36 42	25 59	0'8899	0'6525	1'1035
11	s	$1\frac{3}{20}$	232	34 17'	57 40	"	52 32'	28 25'	44 16'	"	1'3050	1'5796
12	q	$\frac{3}{20}\frac{3}{4}$	634	63 57	56 03'	53 09'	33 07'	48 11'	21 22	1'3352	0.6525	1'5858

Anglesit.

Rhombisch.

$a = 0.7852$	$\lg a = 989498$	$\lg a_0 = 978459$	$\lg p_0 = 021541$	$a_0 = 0.6089$	$p_0 = 1.6421$
$c = 1.2894$	$\lg c = 011039$	$\lg b_0 = 988961$	$\lg q_0 = 011039$	$b_0 = 0.7755$	$q_0 = 1.2894$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90°00	90°00	90°00	90°00	90°00	∞	∞	∞
3	b	∞0	100	90°00	0°00	0°00	0°00	0°00	0°00	∞	0	∞
4	M	4∞	410	78°53'	∞	∞	90°00	78°53'	11°06'	5°0943	∞	∞
5	N	3∞	310	75°20'	∞	∞	∞	75°20'	14°40'	3°8206	∞	∞
6	O	$\frac{2}{3}\infty$	520	72°34'	∞	∞	∞	72°34'	17°26'	3°1839	∞	∞
7	λ	2∞	210	68°34'	∞	∞	∞	68°34'	21°26'	2°5471	∞	∞
8	P	$\frac{4}{3}\infty$	740	65°50'	∞	∞	∞	65°50'	24°10'	2°2287	∞	∞
9	i	$\frac{2}{3}\infty$	320	62°22'	∞	∞	∞	62°22'	27°38'	1°9103	∞	∞
10	Q	$\frac{4}{3}\infty$	430	59°30'	∞	∞	∞	59°30'	30°29'	1°6981	∞	∞
11	R	$\frac{10}{9}\infty$	10°9'0	54°45'	∞	∞	∞	54°45'	35°15'	1°4151	∞	∞
12	m	∞	110	51°51'	∞	∞	∞	51°51'	38°08'	1°2736	∞	∞
13	S	$\frac{10}{9}\infty$	9°10'0	48°54'	∞	∞	∞	48°54'	41°06'	1°1462	∞	∞
14	T	$\frac{8}{7}\infty$	780	48°06'	∞	∞	∞	48°06'	41°54'	1°1143	∞	∞
15	U	$\frac{8}{7}\infty$	790	44°43'	∞	∞	∞	44°43'	45°16'	0°9905	∞	∞
16	h	$\frac{4}{3}\infty$	340	43°41'	∞	∞	∞	43°41'	46°19'	0°9552	∞	∞
17	δ	$\frac{3}{2}\infty$	230	40°20'	∞	∞	∞	40°20'	49°40'	0°8490	∞	∞
18	V	$\frac{8}{5}\infty$	580	38°31'	∞	∞	∞	38°31'	51°29'	0°7960	∞	∞
19	n	∞2	120	32°29'	∞	∞	∞	32°29'	57°30'	0°6368	∞	∞
20	κ	∞3	130	23°00'	∞	∞	∞	23°00'	67°00'	0°4245	∞	∞
21	W	$\frac{8}{7}\infty$	270	20°00'	∞	∞	∞	20°00'	70°00'	0°3639	∞	∞
22	A	$0\frac{1}{16}$	0°1'16	0°00'	4°36'	0°00'	4°36'	0°00'	4°36'	0	0°0806	0°0806
23	a	$0\frac{1}{8}$	0°18	∞	9°09'	∞	9°09'	∞	9°09'	∞	0°1611	0°1611
24	j	$0\frac{1}{11}$	0°2'11	∞	13°11'	∞	13°11'	∞	13°11'	∞	0°2344	0°2344
25	B	$0\frac{2}{3}$	0°29	∞	15°59'	∞	15°59'	∞	15°59'	∞	0°2865	0°2865
26	v	$0\frac{1}{3}$	0°13	∞	23°15'	∞	23°15'	∞	23°15'	∞	0°4298	0°4298
27	φ	$0\frac{1}{2}$	0°12	∞	32°48'	∞	32°48'	∞	32°48'	∞	0°6447	0°6447
28	x	$0\frac{3}{5}$	0°35	∞	37°43'	∞	37°43'	∞	37°43'	∞	0°7736	0°7736
29	o	01	0°11	∞	52°12'	∞	52°12'	∞	52°12'	∞	1°2894	1°2894
30	θ	02	0°21	∞	68°48'	∞	68°48'	∞	68°48'	∞	2°5788	2°5788
31	β	03	0°31	∞	75°30'	∞	75°30'	∞	75°30'	∞	3°8682	3°8682
32	k	$\frac{1}{24}0$	1°0'24	90°00'	3°55'	3°55'	0°00'	3°55'	0°00'	0°0684	0	0°0684
33	E	$\frac{1}{22}0$	1°0'22	∞	4°16'	4°16'	∞	4°16'	∞	0°0746	∞	0°0746

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
34	F	$\frac{1}{15}0$	1'0'15	90°00	6°15	6°15	0°00	6°15	0°00	0'1095	0	0'1095
35	G	$\frac{1}{8}0$	108	"	11 36	11 36	"	11 36	"	0'2052	"	0'2052
36	H	$\frac{2}{15}0$	2'0'15	"	12 21	12 21	"	12 21	"	0'2189	"	0'2189
37	I	$\frac{1}{7}0$	107	"	13 12	13 12	"	13 12	"	0'2346	"	0'2346
38	K	$\frac{1}{6}0$	106	"	15 18	15 18	"	15 18	"	0'2737	"	0'2737
39	l	$\frac{1}{4}0$	104	"	22 19	22 19	"	22 19	"	0'4105	"	0'4105
40	e	$\frac{1}{3}0$	103	"	28 41	28 41	"	28 41	"	0'5474	"	0'5474
41	d	$\frac{1}{2}0$	102	"	39 23	39 23	"	39 23	"	0'8210	"	0'8210
42	θ	$\frac{1}{6}0$	116	51 51	19 11	15 18	12 07	14 59	11 42	0'2737	0'2149	0'3480
43	f	$\frac{1}{4}$	114	"	27 34	22 19	17 52	21 20	16 36	0'4105	0'3223	0'5220
44	g	$\frac{1}{3}$	113	"	34 50	28 41	23 15	26 42	20 39	0'5474	0'4298	0'6960
45	r	$\frac{1}{2}$	112	"	46 14	39 23	32 48	34 36	26 29	0'8211	0'6447	1'0439
46	z	1	111	"	64 24	58 39	52 12	45 11	33 51	1'6418	1'2894	2'0878
47	τ	2	221	"	76 32	73 04	68 48	49 54	36 55	3'2843	2'5788	4'1757
48	ξ	3	331	"	80 56	78 31	75 30	50 57	37 34	4'9264	3'8682	6'2636
49	Δ	4	441	"	83 10	81 20	79 01	51 20	37 49	6'5686	5'1576	8'3514
50	ν	$1\frac{1}{2}$	212	68 34	60 27	58 39	32 48	54 04	18 32	1'6418	0'6447	1'7642
51	t	12	121	32 29	71 53	"	68 48	30 42	53 17	"	2'5788	3'0572
52	ε	13	131	23 00	76 37	"	75 30	22 20	63 34	"	3'8682	4'2024
53	ξ	$1\frac{1}{2}1$	1'12'12	6 03	52 21	7 47	52 12	4 47	51 56	0'1368	1'2894	1'2966
54	q	$\frac{1}{6}1$	166	11 59	52 49	15 18	"	9 31	51 12	0'2737	"	1'3181
55	π	$\frac{1}{5}1$	155	14 17	53 04	18 11	"	11 23	50 46	0'3284	"	1'3306
56	χ	$\frac{1}{4}1$	144	17 40	53 32	22 19	"	14 07	50 01	0'4105	"	1'3532
57	ψ	$\frac{1}{3}1$	133	23 00	54 29	28 42	"	18 32	48 31	0'5474	"	1'4008
58	y	$\frac{1}{2}1$	122	32 29	56 48	39 23	"	26 43	44 54	0'8211	"	1'5286
59	ι	$\frac{2}{3}1$	233	40 20	59 24	47 35	"	33 51	41 00	1'0948	"	1'6915
60	ω	$\frac{1}{2}1\frac{1}{4}$	214	68 34	41 25	39 23	17 52	38 00	13 59	0'8211	0'3223	0'8821
61	s	$\frac{1}{2}\frac{3}{2}$	132	23 00	64 33	"	62 39	20 40	56 13	"	1'9341	2'1012
62	ζ	$\frac{1}{2}2$	142	17 39	69 43	"	68 48	16 32	63 21	"	2'5788	2'7064
63	J	$\frac{1}{20}1\frac{1}{2}$	1'10'20	7 15	33 01	4 41	32 48	3 57	32 43	"	0'6447	0'6499
64	μ	$\frac{1}{4}\frac{1}{2}$	124	32 29	37 23	22 19	"	19 02	30 49	0'4105	"	0'7643
65	L	$\frac{1}{4}\frac{1}{2}$	236	40 20	40 13	28 41	"	24 42	29 29	0'5474	"	0'8457
66	p	$\frac{3}{4}\frac{1}{2}$	324	62 22	54 16	50 55	"	45 59	22 07	1'2316	"	1'3901
67	ρ	$\frac{3}{2}2$	342	43 41	74 20	67 54	68 48	41 41	44 07	2'4632	2'5788	3'5670
68	γ	$\frac{1}{3}\frac{1}{2}$	123	32 29	45 32	28 41	40 41	22 32	37 01	0'5474	0'8596	1'0191
69	a	$\frac{1}{3}\frac{1}{3}$	143	17 39	61 00	"	59 49	15 23	56 27	"	1'7192	1'8042
70	b	$\frac{1}{3}1\frac{1}{3}$	1'11'13	6 36	47 41	7 12	47 29	4 52	47 16	0'1263	1'0910	1'0983
71	c	$\frac{1}{6}1\frac{1}{3}$	126	32 29	27 00	15 18	23 15	14 07	22 31	0'2737	0'4298	0'5095
72	d	$\frac{1}{2}3$	562	46 42	79 57	76 18	75 30	45 46	42 28	4'1054	3'8682	5'6406
73	w	$\frac{1}{8}\frac{1}{4}$	128	32 29	20 55	11 36	17 52	11 03	17 31	0'2052	0'3223	0'3822
74	e	$4\frac{1}{2}$	892	48 32	83 29	81 20	80 13	48 07	41 08	6'5686	5'8023	8'7644
75	f	$\frac{7}{2}4$	782	48 06	82 37	80 08	79 01	47 34	41 29	5'7475	5'1576	7'2223

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x : y)	y	d =tg ϱ
76	g	5 $\frac{11}{2}$	10'11'2	49° 11	84° 44	83° 03'	81° 58'	48° 54	40° 36'	8'2107	7'0917	10'849
77	h	56	561	46 42	84 56	"	82 38	46 28	43 05	"	7'7364	11'281
78	i	$\frac{9}{2}5$	9'10'2	48 54	84 10'	82 17'	81 11	48 33'	40 51	7'3896	6'4470	9'8066
79	u	$\frac{1}{6}3\frac{3}{5}$	146	17 39'	42 03'	15 18'	40 41	11 43'	39 39'	0'2737	0'8596	0.9021
80	f	$\frac{6}{7}$	671	47 30'	85 43	84 12'	83 40'	47 20	42 20'	9'8528	9'0258	13'362
81	m	$\frac{1}{2}16$	11'12'2	49 25	85 11'	83 41'	82 38	49 11	40 24'	9'0317	7'7364	11'892
82	n	78	781	48 06	86 17'	85 01'	84 28	47 58	41 48	11'4955	10'3150	15'445
83	o	7'10	7'10'1	41 43	86 41'	"	85 34	41 38	48 10'	"	12'8940	17'274
84	p	$\frac{1}{8}3\frac{4}{5}$	168	11 59	44 40'	11 36	44 02'	8 23'	43 27	0.2052	0'7681	0'9886
85	q	8'10	8'10'1	45 32	86 53'	85 39	85 34	45 27	44 23	13'1370	12'8940	18'408
86	t	$\frac{4}{3}3\frac{3}{5}$	435	59 30'	56 44'	52 43'	37 43'	46 06	25 06'	1'3137	0'7736	1'5246
87	r	$\frac{2}{3}3\frac{3}{5}$	295	15 48	67 29	33 18	66 41'	14 34	62 43'	0'6568	2'3209	2'4120
88	j	$\frac{7}{2}2$	792	38 57'	82 22	77 58	80 13'	38 33	50 25	4'6918	5'8023	7'4618

Anhydrit.

Rhombisch.

a = 0'8932	lga = 995095	lga ₀ = 995061	lg p ₀ = 004939	a ₀ = 0'8925	p ₀ = 1'1204
c = 1'0008	lg c = 000034	lg b ₀ = 999966	lg q ₀ = 000034	b ₀ = 0'9992	q ₀ = 1'0008

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x : y)	y	d =tg ϱ
1	a	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	0 ∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	c	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	d	0 $\frac{1}{2}$	012	0 00	26 35	0 00	26 35	0 00	26 35	0	0'5004	0'5004
5	?a	0 $\frac{2}{3}$	023	"	33 42'	"	33 42'	"	33 42'	"	0'6672	0'6672
6	τ	0 $\frac{4}{5}$	045	"	38 41	"	38 41	"	38 41	"	0'8006	0'8006
7	s	01	011	"	45 01'	"	45 01'	"	45 01'	"	1'0008	1'0008
8	μ	0 $\frac{5}{6}$	053	"	59 03'	"	59 03'	"	59 03'	"	1'6680	1'6680
9	?ρ	02	021	"	63 27	"	63 27	"	63 27	"	2'0016	2'0016
10	σ	03	031	"	71 34'	"	71 34	"	71 34	"	3'0023	3'0023
11	w	$\frac{1}{5}0$	105	90 00	12 38	12 38	0 00	12 38	0 00	0'2241	0	0'2241
12	t	$\frac{1}{4}0$	104	"	15 39	15 39	"	15 39	"	0'2801	"	0'2801

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
13	v	$\frac{1}{2}0$	103	90° 00	20° 29	20° 29	0° 00	20° 29	0° 00	0'3735	0	0'3735
14	e	$\frac{1}{2}0$	205	"	24 08'	24 08'	"	24 08'	"	0'4482	"	0'4482
15	u	$\frac{1}{2}0$	102	"	29 15'	29 15'	"	29 15'	"	0'5602	"	0'5602
16	β	$\frac{1}{2}0$	509	"	31 54	31 54	"	31 54	"	0'6224'	"	0'6224'
17	g	$\frac{1}{2}0$	305	"	33 54'	33 54'	"	33 54'	"	0'6722'	"	0'6722'
18	q	$\frac{1}{2}0$	203	"	36 45'	36 45'	"	36 45'	"	0'7469'	"	0'7469'
19	x	$\frac{3}{4}0$	304	"	40 02'	40 02'	"	40 02'	"	0'8403'	"	0'8403'
20	l	$\frac{3}{4}0$	405	"	41 52'	41 52'	"	41 52'	"	0'8963'	"	0'8963'
21	r	10	101	"	48 15	48 15	"	48 15	"	1'1204'	"	1'1204'
22	k	$\frac{4}{3}0$	403	"	56 12	56 12	"	56 12	"	1'4939	"	1'4939
23	γ	$\frac{4}{3}0$	503	"	61 50	61 50	"	61 50	"	1'8674	"	1'8674
24	i	20	201	"	65 57	65 57	"	65 57	"	2'2409	"	2'2409
25	h	$\frac{5}{2}0$	502	"	70 21	70 21	"	70 21	"	2'8012	"	2'8012
26	o	1	111	48 13'	56 21	48 15	45 01'	38 22'	33 41'	1'1204	1'0008	1'5023
27	n	12	121	29 14'	66 27	"	63 27	26 36	53 07	"	2'0016	2'2938
28	f	13	131	20 28	72 40	"	71 34'	19 30	63 26	"	3'0024	3'2046

Annerödrit.

Rhombisch.

a = 0'4037	lg a = 960606	lg a ₀ = 004855	lg p ₀ = 995145	a ₀ = 1'1183	p ₀ = 0'8942
c = 0'3610	lg c = 955751	lg b ₀ = 044249	lg q ₀ = 955751	b ₀ = 2'7701	q ₀ = 0'3610

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	0∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	g	∞	110	68 01	"	"	90 00	68 01	21 59	2'4770'	∞	"
5	m	∞3	130	39 33	"	"	"	39 33	50 27	0'8257	"	"
6	z	∞5	150	26 21'	"	"	"	26 21'	63 38'	0'4954	"	"
7	l	$0\frac{1}{2}$	012	0 00	10 14	0 00	10 14	0 00	10 14	0	0'1805	0'1805
8	k	01	011	"	19 51	"	19 51	"	19 51	"	0'3610	0'3610
9	e	20	201	90 00	60 47'	60 47'	0 00	60 47'	0 00	1'7884'	0	1'7884'
10	u	1	111	68 01	43 57'	41 48	19 51	40 04	15 03'	0'8942'	0'3610	0'9643
11	s	2	221	"	62 35'	60 47'	35 49'	55 24'	19 24'	1'7884'	0'7220	1'9287
12	β	12	121	51 05	48 58'	41 48	"	35 56'	28 17'	0'8942'	"	1'1493
13	o	13	131	39 33	54 33	41 48	47 17	31 14'	38 55	0'8942'	1'0830	1'4044
14	n	21	211	78 35'	61 16'	60 47'	19 51	59 16	9 59'	1.7884'	0'3610	1'8245

Antimon.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1.3236 \quad \lg c = 0.12176 \quad \lg a_0 = 0.11680 \quad \lg p_0 = 994567 \quad a_0 = 1.3086 \quad p_0 = 0.8824 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	r	+1	1011	30 00	56 48	37 23	52 56	24 44	46 26	0.7642	1.3236	1.5284
4	z	+ $\frac{1}{4}$	1124	"	20 54	10 49	18 18	10 17	18 00	0.1910	0.3309	0.3821
5	e	- $\frac{1}{2}$	1122	"	37 23	20 54	33 30	17 40	31 43	0.3821	0.6618	0.7642
6	s	-2	2241	"	71 53	56 48	69 18	28 22	55 24	1.5284	2.6472	3.0567
7	x	- $\frac{7}{8}$	7188	6 35	39 47	5 27	39 36	4 12	29 28	0.0955	0.8273	0.8328

Antimonblende.

Rhombisch.

$$a = 1.3212 \quad \lg a = 0.12098 \quad \lg a_0 = 0.18983 \quad \lg p_0 = 981017 \quad a_0 = 1.5482 \quad p_0 = 0.6459$$

$$c = 0.8534 \quad \lg c = 993115 \quad \lg b_0 = 0.06885 \quad \lg q_0 = 993115 \quad b_0 = 1.1718 \quad q_0 = 0.8534$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	p	∞0	100	90°00	90°00	90°00	0°00	90°00	0°00	∞	0	∞
2	δ	$\frac{1}{2}$ 0	104	"	9°10'	9 10'	"	9 10'	"	0.1615	"	0.1615
3	u	$\frac{1}{3}$ 0	103	"	12 09	12 09	"	12 09	"	0.2153	"	0.2153
4	s	$\frac{1}{2}$ 0	102	"	17 54	17 54	"	17 54	"	0.3229	"	0.3229
5	λ	$\frac{2}{3}$ 0	203	"	23 18	23 18	"	23 18	"	0.4306	"	0.4306
6	ω	$\frac{3}{4}$ 0	304	"	25 51	25 51	"	25 51	"	0.4844	"	0.4844
7	ρ	$\frac{5}{8}$ 0	503	"	47 06	47 06	"	47 06	"	1.0765	"	1.0765
8	o	20	201	"	52 15	52 15	"	52 15	"	1.2918	"	1.2918
9	σ	$\frac{7}{8}$ 0	703	"	56 26	56 26	"	56 26	"	1.5071	"	1.5071
10	Σ	1	111	37 07	46 56	32 51	40 28	26 10	35 38	0.6459	0.8534	1.0703
11	Θ	13	131	14 09	69 15	"	68 40	13 13	65 03	"	2.5602	2.6404
12	Δ	23	231	26 46	70 46	52 15	"	25 10	57 27	1.2918	"	2.8675

Antimonglanz.

Rhombisch.

a = 0.9926	lg a = 999677	lg a ₀ = 998906	lg p ₀ = 001094	a ₀ = 0.9751	p ₀ = 1.0253
c = 1.0179	lg c = 000771	lg b ₀ = 999229	lg q ₀ = 000771	b ₀ = 0.9824	q ₀ = 1.0179

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	h	3∞	310	71 41'	90 00	"	90 00	71 41'	18 18'	3'0928	∞	"
5	n	2∞	210	63 36'	"	"	"	63 36'	26 23'	2'0149	"	"
6	ι	2/3∞	320	56 30'	"	"	"	56 30'	33 29'	1'5000	"	"
7	k	3/4∞	430	53 20	"	"	"	53 20	36 40	1'3433	"	"
8	m	∞0/2	110	45 13	"	"	"	45 13	44 47	1'0075	"	"
9	κ	∞0/3	560	40 01	"	"	"	40 01	49 59	0'8395'	"	"
10	r	∞0/4	340	37 04'	"	"	"	37 04'	52 55'	0'7556	"	"
11	d	∞0/5	230	33 53	"	"	"	33 53	56 07	0'6716'	"	"
12	l	∞0/6	350	31 09	"	"	"	31 09	58 51	0'6185'	"	"
13	o	∞2	120	26 44	"	"	"	26 44	63 16	0'5037'	"	"
14	z	∞2/5	250	21 57	"	"	"	21 57	68 03	0'4030	"	"
15	q	∞3	130	18 34	"	"	"	18 34	71 26	0'3358	"	"
16	i	∞4	140	14 08	"	"	"	14 08	75 52	0'2518'	"	"
17	t	∞5	150	11 23'	"	"	"	11 23'	78 36'	0'2014'	"	"
18	θ	∞6	160	9 06'	"	"	"	9 06'	80 53'	0'1679	"	"
19	θ	∞7	170	8 11'	"	"	"	8 11'	81 48'	0'1439	"	"
20	γ	0 1/3	013	0 00	18 44'	0 00	18 44'	0 00	18 44'	c	0'3393	0'3393
21	x	0 1/2	012	"	26 58'	"	26 58'	"	26 58'	"	0'5089	0'5089
22	N	0 2/3	023	"	34 09'	"	34 09'	"	34 09'	"	0'6786	0'6786
23	u	01	011	"	45 30'	"	45 30'	"	45 30'	"	1'0179	1'0179
24	Q	0 4/3	043	"	53 37'	"	53 37'	"	53 37'	"	1'3572	1'3572
25	I	0 5/3	053	"	59 59	"	59 59	"	59 59	"	1'6965	1'6965
26	II	02	021	"	63 50'	"	63 50'	"	63 50'	"	2'0358	2'0358
27	j	03	031	"	71 52	"	71 52	"	71 52	"	3'0537	3'0537
28	Y	04	041	"	76 12	"	76 12	"	76 12	"	4'0716	4'0716
29	g	0 1/2	092	"	77 41	"	77 41	"	77 41	"	4'5805'	4'5805'
30	R	0 1/6	106	90 00	9 42	9 42	0 00	9 42	0 00	0'1709	0	0'1709
31	L	1/3 0	103	"	18 52'	18 52'	"	18 52'	"	0'3418'	"	0'3418'
32	y	1/2 0	102	"	27 09	27 09	"	27 09	"	0'5127'	"	0'5127'
33	Σ	2/3 0	203	"	34 21'	34 21'	"	34 21'	"	0'6836'	"	0'6836'
34	z	10	101	"	45 43'	45 43'	"	45 43'	"	1'0255	"	1'0255
35	Φ	90	901	"	83 49	83 49	"	83 49	"	9'2296	"	9'2296
36	w	13	131	18 34	72 45'	45 43'	71 52	17 42	64 52'	1'0255	3'0537	3'2213

No.	Buch- staben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
37	v	12	121	26° 44	66° 19	45 43'	63° 50'	24° 20	54° 52	1'0255	2'0358	2'2795
38	η	1 $\frac{5}{3}$	353	31 09	63 14	"	59 29	27 30'	49 49'	"	1'6965	1'9824
39	τ	1 $\frac{4}{3}$	343	37 04'	59 33	"	53 37	31 18'	43 27'	"	1'3572	1'7011
40	β	1 $\frac{7}{6}$	676	40 48'	57 29'	"	49 54	33 27	39 39'	"	1'1876	1'5691
41	p	1	111	45 13	55 19	"	45 30'	35 42'	35 24	"	1'0179	1'4449
42	ε	1 $\frac{7}{8}$	878	49 01'	53 38'	"	41 41'	37 26'	31 52'	"	0'8907	1'3583
43	Z	1 $\frac{5}{6}$	656	50 24	53 05	"	40 18'	38 01'	30 38	"	0'8482'	1'3309
44	α	1 $\frac{3}{4}$	434	53 20	51 58	"	37 21'	39 11	28 03'	"	0'7634'	1'2785
45	Δ	1 $\frac{2}{3}$	323	56 30'	50 53	"	34 09'	40 19	25 21	"	0'6786	1'2297
46	λ	1 $\frac{1}{3}$	313	71 41'	47 12'	"	18 44'	44 09'	13 19'	"	0'3393	1'0802
47	ξ	3	331	45 13	77 00'	71 59'	71 52	43 45	43 21	3'0765	3'0537	4'3347
48	η	$\frac{9}{10}$	9'9'10	"	52 26'	42 42'	42 29'	34 14	33 57	0'9229'	0'9161	1'3004
49	$\tilde{\eta}$	$\frac{4}{3}$	445	"	49 08	39 22	39 09'	32 28	32 11'	0'8204	0'8143	1'1559
50	ζ	$\frac{2}{3}$	223	"	43 55'	34 21'	34 09'	29 30	29 15'	0'6836'	0'6786	0'9633
51	π	$\frac{1}{2}$	112	"	35 51	27 09	26 58'	24 33'	24 22	0'5127'	0'5089'	0'7225
52	s	$\frac{1}{3}$	113	"	25 43	18 52'	18 44'	17 56	17 48	0'3418'	0'3393	0'4816
53	v	$\frac{2}{7}$	227	"	22 26	16 20	16 13	15 43	15 35'	0'2930	0'2908'	0'4128
54	f	$\frac{5}{19}$	5'5'19	"	20 49	15 06	14 59'	14 36'	14 30	0'2698'	0'2678'	0'3802
55	μ	$\frac{1}{4}$	114	"	19 51'	14 23	14 16'	13 57	13 51	0'2563'	0'2544'	0'3612
56	g	$\frac{3}{13}$	3'3'13	"	18 26'	13 19	13 13	12 58'	12 52'	0'2366'	0'2349	0'3334
57	h	$\frac{3}{17}$	3'3'17	"	14 18'	10 15'	10 11	10 06	10 01'	0'1809'	0'1796'	0'2550
58	G	$\frac{1}{3}$	144	14 08	46 23'	14 23	45 30'	10 11	44 36'	0'2563'	1'0179	1'0497
59	t	$\frac{1}{3}$	133	18 34	47 02'	18 52'	"	13 28'	43 55'	0'3418'	"	1'0738
60	H	$\frac{2}{5}$	255	21 57	47 39'	22 18	"	16 02'	43 17	0'4102	"	1'0975
61	K	$\frac{2}{3}$	233	33 53	50 48	34 21'	"	25 36	40 02'	0'6836'	"	1'2262
62	u	$\frac{2}{1}$	211	63 36'	66 24'	64 00'	"	55 10'	24 02'	2'0510	"	2'2897
63	σ	$\frac{2}{3}$	213	"	37 21	34 21'	18 44'	32 55	15 39	0'6836'	0'3393	0'7632
64	f	$\frac{1}{2}$	214	"	29 47'	27 09	14 16'	26 25'	12 45'	0'5127'	0'2544'	0'5724
65	A	$\frac{3}{6}$	361	26 44	81 41	71 59'	80 42	26 26	62 05'	3'0765	6'1074	6'8387
66	m	$\frac{5}{3}$	5'10'3	"	75 15	59 40	73 35	25 47'	59 44	1'7092	3'3931	3'7992
67	n	$\frac{2}{3}$	243	"	56 39	34 21'	53 37	22 04'	48 15	0'6836'	1'3572	1'5197
68	e	$\frac{1}{3}$	123	"	37 13'	18 52'	34 09'	15 47'	32 42	0'3418'	0'6786	0'7598
69	f	$\frac{2}{3}$	263	18 34	65 02	34 21'	63 50'	16 46'	59 15	0'6836'	2'0358	2'1476
70	T	52	521	68 20'	79 43'	78 58	"	66 08'	21 17'	5'1276	"	5'5169
71	b	$\frac{2}{9}$	629	71 41'	35 45'	34 21'	12 45	33 42	10 34'	0'6836'	0'2262	0'7201
72	M	$\frac{4}{3}$	413	76 04	54 38	53 49	18 44'	52 19'	11 19'	1'3673'	0'3393	1'4088
73	V	$\frac{10}{9}$	10'30'9	18 34	74 23'	48 44	73 35	17 51'	65 55'	1'1395	3'3931	3'5793
74	X	$\frac{4}{3}$	431	53 20	78 56	76 18	71 52	51 55'	35 52'	4'1020	3'0537	5'1139
75	Ψ	$\frac{8}{9}$	829	76 04	43 12'	42 21	12 45	41 38'	9 29'	0'9116	0'2262	0'9392
76	e	$\frac{2}{3}$	283	14 08	70 20'	34 21'	69 46'	13 18	65 57	0'6836'	2'7144	2'7992
77	φ	$\frac{1}{3}$	143	"	54 27'	18 52'	53 37	11 27'	52 05'	0'3418'	1'3572	1'3996
78	ψ	$\frac{1}{6}$	146	"	34 59	9 42	34 09'	8 03	33 46'	0'1709	0'6786	0'6998

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
79	i	$\frac{2}{3}4$	2'12'3	9° 32'	76° 23'	34° 21'	76° 12'	9° 15'	73° 26'	0'6836	4'0716	4'1287
80	o	$\frac{1}{3}\frac{5}{3}$	153	11 32'	59 59	18 52'	59 29	9 51	58 05	0'3418	1'6965	1'7306
81	E	$\frac{10}{3}5$	10'15'3	33 53	80 44	73 41'	78 53	33 23	55 01	3'4184	5'0895	6'1310
82	I'	$\frac{1}{2}\frac{2}{3}$	346	37 04'	40 23	27 09	34 09'	22 59'	31 07'	0'5127	0'6786	0'8506
83	o	$\frac{5}{3}\frac{2}{3}$	523	68 21	61 28	59 40	"	54 44	18 55	1'7092	"	1'8390
84	W	$\frac{20}{9}\frac{10}{3}$	20'30'9	33 53	76 15	66 18'	73 35	32 47'	53 44'	2'2790	3'3930	4'0874
85	D	$\frac{5}{3}\frac{20}{3}$	15'20'3	37 04'	83 17'	78 58	81 37	36 46'	52 24'	5'1275	6'7862	8'5066
86	δ	$\frac{1}{3}\frac{5}{7}$	4'5'12	38 52	28 34'	18 52'	22 59	17 28	21 52	0'3418	0'4241	0'5447
87	a	$\frac{10}{3}\frac{10}{3}$	9'10'3	42 12	77 41	71 59'	73 35	41 01	46 22	3'0765	3'3930	4'5801
88	b	$\frac{2}{3}\frac{5}{3}$	253	21 57	61 20	34 21'	59 29	19 08'	54 28	0'6836	1'6965	1'8291
89	c	$\frac{2}{3}\frac{2}{3}\frac{7}{3}$	273	16 03'	67 58'	"	67 10	14 51'	62 58'	"	2'3751	2'4715
90	Ω	$\frac{5}{3}\frac{8}{3}$	583	32 12	72 41	59 40	69 46'	30 34'	53 53'	1'7092	2'7144	3'2077
91	Ξ	$\frac{5}{3}\frac{11}{3}$	5'11'3	24 36'	76 18'	"	75 00	23 51'	62 03	"	3'7323	4'1051
92	?F	$\frac{7}{3}4$	7'12'3	30 26'	78 02'	67 19	76 12	29 43	57 30	2'3929	4'0716	4'7227

Antimonsilber.

Rhombisch.

a = 0'5775	lg a = 976155	lg a ₀ = 993431	lg p ₀ = 006569	a ₀ = 0'8596	p ₀ = 1'1633
c = 0'6718	lg c = 982724	lg b ₀ = 017276	lg q ₀ = 982724	b ₀ = 1'4886	q ₀ = 0'6718

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	o	o	o
2	a	∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	b	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	m	∞	110	59 59	"	"	90 00	59 59	30 01	1'7316	∞	"
5	n	$\infty 2$	120	40 53	"	"	"	40 53	49 07	0'8658	"	"
6	q	$\infty 3$	130	29 59'	"	"	"	29 59'	60 00'	0'5772	"	"
7	r	$\infty 5$	150	19 06	"	"	"	19 06	70 54	0'3463	"	"
8	e	01	011	0 00	33 53'	0 00	33 53'	0 00	33 53'	o	0'6718	0'6718
9	p	02	021	"	53 20'	"	53 20'	"	53 20'	"	1'3436	1'3436
10	d	10	101	90 00	49 19	49 19	0 00	49 19	0 00	1'1633	o	1'1633
11	z	$\frac{1}{2}$	112	59 59'	33 53'	30 11	18 34	28 52'	16 11'	0'5816	0'3359	0'6717
12	y	1	111	"	53 20'	33 53'	49 19	44 00	23 39	1'1633	0'6718	1'3433
13	x	$\frac{3}{2}$	332	"	63 36'	60 11	45 13	50 52	26 37	1'7449	1'0077	2'0150
14	s	$\frac{1}{3}$	133	29 59'	37 48	21 11'	33 53'	17 50'	32 03'	0'3877	0'6718	0'7757

Apatit.

Hexagonal. Pyramidal-hemiedrisch.

$c = 1.2708$	$\lg c = 0.10408$	$\lg a_0 = 0.13448$	$\lg p_0 = 992799$	$a_0 = 1.3629$	$p_0 = 0.8472$	(G_1)
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N ^o .	Buchstaben	Symb.	Bravais	φ	ρ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ρ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	h	2∞	2130	19 06'	"	"	"	19 06'	70 53'	0.3464	"	"
5	k	4∞	4150	10 53'	"	"	"	10 53'	79 06'	0.1924	"	"
6	τ	$\frac{1}{6}0$	1016	0 00	8 02	0 00	8 02	0 00	8 02	0	0.1412	0.1412
7	σ	$\frac{1}{3}0$	1013	"	15 46	"	15 46	"	15 46	"	0.2824	0.2824
8	ζ	$\frac{5}{12}0$	5.0.5.12	"	19 26'	"	19 26'	"	19 26'	"	0.3530	0.3530
9	r	$\frac{1}{2}0$	1012	"	22 57'	"	22 57'	"	22 57'	"	0.4236	0.4236
10	η	$\frac{3}{5}0$	3035	"	26 56'	"	26 56'	"	26 56'	"	0.5083	0.5083
11	ε	$\frac{3}{4}0$	3034	"	32 26	"	32 26	"	32 26	"	0.6354	0.6354
12	x	10	1011	"	40 16'	"	40 16'	"	40 16'	"	0.8472	0.8472
13	α	$\frac{3}{2}0$	3032	"	51 48	"	51 48	"	51 48	"	1.2708	1.2708
14	y	20	2021	"	59 27	"	59 27	"	59 27	"	1.6944	1.6944
15	w	$\frac{7}{3}0$	7073	"	63 10	"	63 10	"	63 10	"	1.9768	1.9768
16	z	30	3031	"	68 31'	"	68 31'	"	68 31'	"	2.5416	2.5416
17	π	40	4041	"	73 33'	"	73 33'	"	73 33'	"	3.3888	3.3888
18	χ	$\frac{1}{12}0$	1.1.2.12	30 00	6 58'	3 30	6 02'	3 29	6 02	0.0611	0.1059	0.1223
19	φ	$\frac{1}{6}0$	1126	"	13 44'	6 58'	11 57'	6 49'	11 52'	0.1223	0.2118	0.2446
20	ω	$\frac{1}{4}0$	1124	"	20 09	10 23'	17 37'	9 55'	17 21	0.1834	0.3177	0.3668
21	v	$\frac{1}{2}0$	1122	"	36 16	20 09	32 26	17 12'	30 49	0.3668	0.6354	0.7337
22	s	1	1121	"	55 43'	36 16	51 48	24 24'	45 42	0.7337	1.2708	1.4674
23	d	2	2241	"	71 11	55 43'	68 32'	28 15	55 03'	1.4674	2.5416	2.9348
24	i	$1\frac{1}{2}$	2132	19 06'	48 15'	20 09	46 38'	14 08	44 50	0.3668	1.0590	1.1207
25	m	21	2131	"	65 57'	36 16	64 43'	17 23'	59 39	0.7337	2.1180	2.2415
26	ψ	$\frac{7}{3}1$	7.3.10.3	17 00	68 16'	"	67 23	15 45'	62 40'	"	2.4004	2.5101
27	n	31	3141	13 54	71 52'	"	71 22	13 11'	67 18	"	2.9653	3.0547
28	ρ	41	4151	10 53'	75 33'	"	75 18	10 32'	71 58'	"	3.8124	3.8824
29	o	$\frac{3}{2}1$	3142	13 54	56 47	20 08'	56 00	11 35'	54 18'	0.3668	1.4826	1.5274
30	q	43	4371	25 17.	79 01	65 34	77 53	24 47'	62 34	2.2011	4.6596	5.1535

Apophyllit.

Tetragonal.

$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 1'2515$	$\lg c = 009743$	$\lg a_o = 990257$	$a_o = 0'7990$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	o ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
4	r	$\infty 2$	120	26 34	"	"	"	26 34	63 26	0'5000	"	"
5	y	$\infty 3$	130	18 26	"	"	"	18 26	71 34	0'3333	"	"
6	f	o $\frac{1}{8}$	018	o 00	8 53'	o 00	8 53'	o 00	8 53'	o	0'1564	0'1564
7	e	o $\frac{1}{6}$	016	"	11 47'	"	11 47'	"	11 47'	"	0'2085	0'2085
8	v	o $\frac{1}{5}$	015	"	14 03'	"	14 03'	"	14 03'	"	0'2503	0'2503
9	s	o $\frac{1}{3}$	012	"	32 02'	"	32 02'	"	32 02'	"	0'6257	0'6257
10	i	01	011	"	51 22'	"	51 22'	"	51 22'	"	1'2515	1'2515
11	x	$\frac{1}{10}$	1'1'10	45 00	10 02'	7 08'	7 08'	7 04'	7 04'	0'1251	0'1251	0'1770
12	d	$\frac{1}{5}$	115	"	19 29'	14 03'	14 03'	13 39'	13 39'	0'2503	0'2503	0'3540
13	q'	$\frac{2}{7}$	227	"	26 49'	19 40'	19 40'	18 36'	18 36'	0'3575	0'3575	0'5057
14	z	$\frac{1}{3}$	113	"	30 32'	22 38'	22 38'	21 03'	21 03'	0'4171	0'4171	0'5900
15	z	$\frac{2}{3}$	223	"	49 43'	39 50'	39 50'	32 38'	32 38'	0'8343	0'8343	1'1799
16	p	1	111	"	60 32'	51 22'	51 22'	38 00'	38 00'	1'2515	1'2515	1'7699
17	z	1 $\frac{5}{3}$	353	30 58'	67 39'	"	64 23'	28 25'	52 28'	"	2'0858	2'4325
18	σ	12	121	26 34'	70 20'	"	68 13'	24 54'	57 23'	"	2'5030	2'7984
19	a	13	131	18 26'	75 49'	"	75 05'	17 51'	66 53'	"	3'7545	3'9575
20	ϱ	26	261	"	82 48'	68 13'	82 25'	18 17'	70 15'	2'5030	7'5090	7'9152

Aragonit.

Rhombisch.

$a = 0'6224$	$\lg a = 979407$	$\lg a_o = 993638$	$\lg p_o = 006362$	$a_o = 0'8637$	$p_o = 1'1578$
$c = 0'7206$	$\lg c = 985769$	$\lg b_o = 014231$	$\lg q_o = 985769$	$b_o = 1'3877$	$q_o = 0'7206$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	o ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	$\infty 0$	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
4	m	∞	110	58°06	90°00	90°00	90°00	58°06	31°54	1'6067	∞	∞
5	a	$0\frac{1}{3}$	013	0 00	13 30'	0 00	13 30'	0 00	13 30'	0	0'2402	0'2402
6	x	$0\frac{1}{2}$	012	"	19 49	"	19 49	"	19 49	"	0'3603	0'3603
7	k	01	011	"	35 46'	"	35 46'	"	35 46'	"	0'7206	0'7206
8	κ	$0\frac{4}{3}$	043	"	43 51'	"	43 51'	"	43 51'	"	0'9608	0'9608
9	l	$0\frac{3}{2}$	032	"	47 13'	"	47 13'	"	47 13'	"	1'0809	1'0809
10	i	02	021	"	55 14'	"	55 14'	"	55 14'	"	1'4412	1'4412
11	v	03	031	"	65 10'	"	65 10'	"	65 10'	"	2'1617	2'1617
12	h	04	041	"	70 52	"	70 52	"	70 52	"	2'8824	2'8824
13	?A	$0\frac{13}{3}$	0'13'3	"	72 14'	"	72 14'	"	72 14'	"	3'1226	3'1226
14	e	05	051	"	74 29'	"	74 29'	"	74 29'	"	3'6030	3'6030
15	q	06	061	"	76 58'	"	76 58'	"	76 58'	"	4'3235	4'3235
16	β	$0\frac{13}{2}$	0'13'2	"	77 57	"	77 57	"	77 57	"	4'6838	4'6838
17	χ	07	071	"	78 47	"	78 47	"	78 47	"	5'0441	5'0441
18	ν	08	081	"	80 09'	"	80 09'	"	80 09'	"	5'7647	5'7647
19	λ	09	091	"	81 14	"	81 14	"	81 14	"	6'4853	6'4853
20	j	0'12	0'12'1	"	83 24	"	83 24	"	83 24	"	8'6470	8'6470
21	ε	0'13	0'13'1	"	83 54'	"	83 54'	"	83 54'	"	9'3676	9'3676
22	θ	0'14	0'14'1	"	84 20'	"	84 20'	"	84 20'	"	10'088	10'088
23	μ	0'16	0'16'1	"	85 02'	"	85 02'	"	85 02'	"	11'529	11'529
24	ρ	0'20	0'20'1	"	86 02	"	86 02	"	86 02	"	14'412	14'412
25	η	0'24	0'24'1	"	86 41'	"	86 41'	"	86 41'	"	17'294	17'294
26	d	$\frac{1}{2}0$	102	90 00	30 04	30 04	0 00	30 04	0 00	0'5789	0	0'5789
27	g	$\frac{3}{4}0$	304	"	40 58	40 58	"	40 58	"	0'8683	"	0'8683
28	u	10	101	"	49 11	49 11	"	49 11	"	1'1578	"	1'1578
29	f	20	201	"	66 38'	66 38'	"	66 38'	"	2'3155	"	2'3155
30	Δ	15	151	17 49	75 12	49 11	74 29'	17 12'	66 59'	1'1578	3'6030	3'7843
31	s	12	121	38 46'	61 35'	"	55 14'	33 25'	43 17'	"	1'4412	1'8486
32	p	1	111	58 06	53 45	"	35 46'	43 12'	25 13'	"	0'7206	1'3637
33	π	24'24	24'24'1	"	88 15	87 56'	86 41'	58 03'	31 53	27'786	17'294	32'725
34	δ	14'14	14'14'1	"	87 00	86 28	84 20'	57 58'	31 51	16'209	10'088	19'092
35	Θ	10'10	10'10'1	"	85 48'	85 04	82 06	57 51'	31 48	11'578	7'2060	13'634
36	σ	9	991	"	85 20'	84 31	81 14	57 48'	31 47	10'420	6'4853	12'273
37	γ	8	881	"	84 46	83 50'	80 09'	57 43	31 45	9'2622	5'7647	10'909
38	ψ	7	771	"	84 01	82 58	78 47	57 36'	31 42	8'1044	5'0441	9'5460
39	ω	$\frac{13}{2}$	13'13'2	"	83 34	82 26	77 57	57 31'	31 40'	7'5254	4'6838	8'8640
40	ι	6	661	"	83 02	81 48'	76 58'	57 25'	31 38	6'9466	4'3235	8'1822
41	ζ	4	441	"	79 37	77 49	70 52	56 37'	31 19	4'6311	2'8824	5'4548
42	B	$\frac{3}{2}$	332	"	63 57	60 04	47 13'	49 42'	28 20'	1'7366	1'0809	2'0455
43	ο	$\frac{1}{2}$	112	"	34 17'	30 04	19 49	28 34'	17 19	0'5789	0'3603	0'6819
44	n	$\frac{1}{2}1$	122	38 45'	42 45	"	35 46'	25 09'	31 57	"	0'7206	0'9243
45	Σ	$\frac{3}{2}3$	362	"	70 10	60 04	65 10'	36 06	47 10	1'7366	2'1617	2'7730

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x: y)	y	d =tg ϱ
46	t	$\frac{2}{3} \frac{4}{3}$	243	38° 45'	50° 56'	37° 40'	43° 51'	29° 06'	37° 15'	0'7718'	0'9608	1'2324
47	r	$\frac{1}{3} \frac{2}{3}$	123	"	31 38'	21 06'	25 39'	19 11'	24 08'	0'3859	0'4804	0.6162
48	τ	$\frac{1}{4} \frac{1}{2}$	124	"	24 48'	16 08'	19 49'	15 14'	19 05'	0'2894'	0'3603	0'4622
49	H	$\frac{1}{2} \frac{2}{3}$	125	"	20 17'	13 02'	16 05'	12 32'	15 41'	0'2315'	0'2882	0'3697
50	ξ	$\frac{1}{6} \frac{1}{3}$	126	"	17 07'	10 55'	13 30'	10 37'	13 16'	0'1929'	0'2402	0'3081
51	φ	$\frac{4}{5} \frac{2}{3}$	425	72 43'	44 07'	42 48'	16 05'	41 40'	11 56'	0'9262	0'2882	0'9700
52	y	$\frac{2}{3} \frac{1}{3}$	215	"	52 25'	24 51'	8 12'	24 37'	7 27'	0'4631	0'1441	0'4850
53	E	$\frac{1}{2} \frac{2}{3}$	132	28 10'	50 48'	30 04'	47 13'	21 27'	43 05'	0'5789	1'0808'	1'2261
54	Γ	$\frac{1}{4} \frac{2}{3}$	158	17 49'	25 19'	8 14'	24 15'	7 31'	24 01'	0'1447	0'4503	0'4731
55	Y	$\frac{3}{5} \frac{6}{5}$	9'12'2	50 18'	81 36'	79 08'	76 58'	49 34'	39 11'	5'2099	4'3234	6'7703
56	A	$\frac{1}{5} \frac{1}{5} \frac{1}{5}$	12'17'5	48 35'	74 53'	70 12'	67 48'	46 24'	39 40'	2'7786	2'4500	3'7045
57	z	$\frac{2}{2} \frac{2}{2}$	25'27'2	56 05'	86 43'	86 03'	84 08'	55 57'	33 51'	14'472	9'7280	17'438
58	w	$\frac{3}{24} \frac{9}{8}$	25'27'24	"	55 28'	50 20'	39 03'	43 08'	27 21'	1'2060	0'8106	1'4531
59	Φ	$\frac{5}{5} \frac{6}{6}$	561	53 14'	82 07'	80 12'	76 58'	52 31'	36 21'	5'7888	4'3234	7'2252

Ardennit.

Rhombisch.

a = 0'4663	lg a = 966867	lg a ₀ = 017243	lg p ₀ = 982757	a ₀ = 1'4874	p ₀ = 0'6723
c = 0'3135	lg c = 949624	lg b ₀ = 050376	lg q ₀ = 949624	b ₀ = 3'1898	q ₀ = 0'3135

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x: y)	y	d =tg ϱ
1	b	0∞	010	0° 00'	90° 00'	0° 00'	90° 00'	0° 00'	90° 00'	0	∞	∞
2	a	∞0	100	90 00'	"	90 00'	0 00'	90 00'	0 00'	∞	0	"
3	n	$\frac{2}{3} \frac{2}{3}$	320	72 44'	"	"	90 00'	72 44'	17 16'	3'2168	∞	"
4	m	$\frac{2}{3} \frac{2}{3}$	110	65 00'	"	"	"	65 00'	25 00'	2'1445	"	"
5	l	∞2	120	47 00'	"	"	"	47 00'	43 00'	1'0722'	"	"
6	e	10	101	90 00'	33 55'	33 55'	0 00'	33 55'	0 00'	0'6723	0	0'6723
7	o	1	111	65 00'	36 34'	"	17 24'	32 41'	14 35'	"	0'3135	0'7418
8	u	$1 \frac{2}{3}$	323	72 44'	35 09'	"	11 48'	33 21'	9 50'	"	0'2090	0'7041

Argyrodit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	d	$\begin{cases} 01 \\ \infty \end{cases}$	$\begin{matrix} 011 \\ 110 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0 \\ 1'0000 \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$
2	?m	$\begin{cases} \frac{1}{3} \\ 13 \end{cases}$	$\begin{matrix} 113 \\ 131 \end{matrix}$	"	$\begin{matrix} 25^\circ 14' \\ 72^\circ 27' \end{matrix}$	$\begin{matrix} 18^\circ 26' \\ 45^\circ 00' \end{matrix}$	$\begin{matrix} 18^\circ 26' \\ 71^\circ 34' \end{matrix}$	$\begin{matrix} 17^\circ 33' \\ " \end{matrix}$	$\begin{matrix} 17^\circ 33' \\ 64^\circ 45' \end{matrix}$	$\begin{matrix} 0'3333 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'3333 \\ 3'0000 \end{matrix}$	$\begin{matrix} 0'4714 \\ 3'1623 \end{matrix}$
3	p	$\begin{cases} 13 \\ 1 \end{cases}$	$\begin{matrix} 111 \\ 111 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 54^\circ 44' \\ 54^\circ 44' \end{matrix}$	"	$\begin{matrix} 45^\circ 00 \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 35^\circ 16' \\ 35^\circ 16' \end{matrix}$	$\begin{matrix} 35^\circ 16' \\ 35^\circ 16' \end{matrix}$	"	$\begin{matrix} 1'0000 \\ 1'0000 \end{matrix}$	$\begin{matrix} 1'4142 \\ 1'4142 \end{matrix}$

Arksutit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1'015 \quad \lg c = 000647 \quad \lg a_0 = 999353 \quad a_0 = 0'9852$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	p	1	111	$45^\circ 00'$	$55^\circ 08'$	$45^\circ 25'$	$45^\circ 25'$	$35^\circ 28'$	$35^\circ 28'$	1'0150	1'0150	1'4354

Arsen.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1'4013 \quad \lg c = 014653 \quad \lg a_0 = 009203 \quad \lg p_0 = 997044 \quad a_0 = 1'2360 \quad p_0 = 0'9342 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	0	0	0
2	r	+1	11 $\bar{2}$ 1	$30^\circ 00'$	$58^\circ 17'$	$38^\circ 58'$	$54^\circ 29'$	$25^\circ 10'$	$47^\circ 27'$	0'8090	1'4013	1'6181
3	z	$+\frac{1}{2}$	11 $\bar{2}$ 4	"	$22^\circ 01'$	$11^\circ 26'$	$19^\circ 18'$	$10^\circ 48'$	$18^\circ 57'$	0'2023	0'3503	0'4045
4	e	$-\frac{1}{2}$	1 $\bar{1}$ 22	"	$38^\circ 58'$	$22^\circ 01'$	$35^\circ 01'$	$18^\circ 20'$	$33^\circ 00'$	0'4045	0'7006	0'8090
5	h	$-\frac{3}{2}$	3 $\bar{3}$ 62	"	$67^\circ 36'$	$50^\circ 30'$	$64^\circ 33'$	$27^\circ 32'$	$53^\circ 12'$	1'2136	2'1020	2'4271

Arsenit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prism n) (x : y)	y	d =tg ϱ
1	p	1	111	$45^\circ 00'$	$54^\circ 44'$	$45^\circ 00'$	$45^\circ 00'$	$35^\circ 16'$	$35^\circ 16'$	1'0000	1'0000	1'4142

Arsenkies.

Rhombisch.

a = 0.6802	lga = 983264	lga ₀ = 975654	lgp ₀ = 024346	a ₀ = 0.5709	p ₀ = 1.7517
c = 1.1915	lgc = 007610	lgb ₀ = 992390	lgq ₀ = 007610	b ₀ = 0.8393	q ₀ = 1.1915

N ^o .	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	55 46'	"	"	90 00	55 46'	34 13'	1.4701'	∞	"
5	μ	∞ ⁴ / ₃	340	47 47'	"	"	"	47 47'	42 12'	1.1026	"	"
6	ν	∞ ⁷ / ₃	370	32 13	"	"	"	32 13	57 47	0.6300'	"	"
7	w	0 ¹ / ₁₀	0.1.16	0 00	4 15'	0 00	4 15'	0 00	4 15'	0	0.0744'	0.0744'
8	y	0 ¹ / ₅	018	"	8 28	"	8 28	"	8 28	"	0.1489'	0.1489'
9	β	0 ¹ / ₆	016	"	11 14	"	11 14	"	11 14	"	0.1986	0.1986
10	ρ	0 ¹ / ₅	015	"	13 24	"	13 24	"	13 24	"	0.2383	0.2383
11	r	0 ¹ / ₄	014	"	16 35	"	16 35	"	16 35	"	0.2979	0.2979
12	ω	0 ² / ₇	027	"	18 48	"	18 48	"	18 48	"	0.3404'	0.3404'
13	q	0 ¹ / ₃	013	"	21 39'	"	21 39'	"	21 39'	"	0.3971'	0.3971'
14	s	0 ¹ / ₂	012	"	30 47	"	30 47	"	30 47	"	0.5957'	0.5957'
15	u	0 ³ / ₈	023	"	38 27'	"	38 27'	"	38 27'	"	0.7943'	0.7943'
16	l	01	011	"	49 59'	"	49 59'	"	49 59'	"	1.1915	1.1915
17	k	02	021	"	67 14	"	67 14	"	67 14	"	2.3830	2.3830
18	t	03	031	"	74 22	"	74 22	"	74 22	"	3.5745'	3.5745'
19	e	10	101	90 00	60 16'	60 16'	0 00	60 16'	0 00	1.7517	0	1.7517
20	g	1	111	55 46'	64 44	"	49 59'	48 24	30 34'	"	1.1915	2.1185
21	h	3	331	"	81 03'	79 13'	74 22	54 46	33 45	5.2551	3.5745'	6.3555
22	v	1 ¹ / ₂	212	71 13	61 36'	60 16'	30 47	56 24	16 27'	1.7517	0.5957'	1.8502
23	x	3 ¹ / ₂	312	77 13'	69 38	69 10	"	66 06'	11 58	2.6275	"	2.6942
24	i	32	321	65 36'	80 10	79 13'	67 14	63 48'	24 07	5.2551	2.3830'	5.7701

Astrophyllit.

Rhombisch.

a = 0.9902	lga = 999572	lga ₀ = 932269	lgp ₀ = 067731	a ₀ = 0.2102	p ₀ = 4.757
c = 4.7101	lgc = 067303	lgb ₀ = 932697	lgq ₀ = 067303	b ₀ = 0.2123	q ₀ = 4.710

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	m	∞	110	45 17	"	"	"	45 17	44 43	1'0099	"	"
3	g	$0\frac{3}{8}$	038	0 00	60 29	"	60 29	0 00	60 29	0	1'7663	1'7663
4	q	10	101	90 00	78 07'	78 07'	0 00	78 07'	0 00	4'7568	0	4'7568
5	l	1	111	45 17	81 30	"	78 08	44 39	44 06	"	4'7101	6'6940
6	z	$1\frac{1}{6}$	616	80 38	78 17	"	38 08	75 02	9 10'	"	0'7850	4'8210
7	x	$1\frac{1}{2}$	212	63 39'	79 20	"	66 59'	61 43'	25 51	"	2'3550'	5'3077
8	i	$1\frac{3}{4}$	434	53 24	80 25	"	74 11'	52 20	36 00'	"	3'5326	5'9248

Atakamit.

Rhombisch.

a = 0'6613	lga = 982040	lga ₀ = 994447	lgp ₀ = 005553	a ₀ = 0'8800	p ₀ = 1'1364
c = 0'7515	lgc = 987593	lgb ₀ = 012407	lq ₀ = 987593	b ₀ = 1'3307	q ₀ = 0'7515

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	0°00	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞	010	"	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	x	∞	140	20 42'	"	"	90 00	20 42'	69 17'	0'3870	∞	"
5	k	∞	130	26 45	"	"	"	26 45	63 15	0'5041	"	"
6	s	∞	120	37 05'	"	"	"	37 05'	52 54'	0'7561	"	"
7	l	∞	230	45 14	"	"	"	45 14	44 46	1'0081	"	"
8	t	∞	560	51 34	"	"	"	51 34	38 26	1'2601	"	"
9	m	∞	110	56 31'	"	"	"	56 31'	33 28'	1'5121'	"	"
10	d	$0\frac{2}{3}$	023	0 00	26 36'	0 00	26 36'	0 00	26 36	0	0'5010	0'5010
11	e	01	011	"	36 55'	"	36 55'	"	36 55'	"	0'7515	0'7515
12	i	$0\frac{10}{9}$	0'10'9	"	39 52	"	39 52	"	39 52	"	0'8350	0'8350
13	o	02	021	"	56 22	"	56 22	"	56 22	"	1'5030	1'5030
14	g	03	031	"	66 05	"	66 05	"	66 05	"	2'2545	2'2545
15	u	10	101	90 00	48 39	48 39	0 00	48 39	0 00	1'1364	0	1'1364
16	h	20	201	"	66 15	66 15	"	66 15	"	2'2728	"	2'2728
17	n	12	121	37 05'	62 02'	48 39	56 22	32 11'	44 48	1'1364	1'5030	1'8843
18	r	1	111	56 31'	53 43'	"	36 55'	42 15	26 24	"	0'7515	1'3624
19	w	$\frac{9}{2}$	992	"	80 44	78 56	73 31'	55 24'	32 59	5'1136'	0'3381'	6'1308
20	z	3	331	"	76 15	73 39	66 05	54 07	32 24	3'4092	2'2545	4'0873
21	q	2	221	"	69 51	66 15	56 22	51 32'	31 11	2'2728	1'5030	2'7248
22	f	21	211	71 42	67 19'	"	36 55'	61 10'	16 50'	"	0'7515	2'3938
23	y	$\frac{32}{2}$	321	66 12'	74 58'	73 39	56 22	62 05'	22 56	3'4092	1'5030	3'7258
24	v	$\frac{7}{2}$	762	60 27	77 40	75 53	66 05	58 12	28 48	3'9774	2'2545	4'5719

Atelest. Atopit.

Monoklin.

$a = 0.9334$	$lga = 997007$	$lga_0 = 979250$	$lg p_0 = 020750$	$a_0 = 0.6201$	$p_0 = 1.6125$
$c = 1.5051$	$lgc = 017757$	$lgb_0 = 982243$	$lg q_0 = 015249$	$b_0 = 0.6644$	$q_0 = 1.4207$
$\left. \begin{matrix} \mu = \\ 180 - \beta \end{matrix} \right\} 70^\circ 43$	$\left. \begin{matrix} lgh = \\ lg \sin \mu \end{matrix} \right\} 997492$	$\left. \begin{matrix} lge = \\ lg \cos \mu \end{matrix} \right\} 951883$	$lg \frac{p_0}{q_0} = 005501$	$h = 0.9439$	$e = 0.3302$

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	o	001	90° 00	19° 17	19° 17	0° 00	19° 17	0° 00	0.3498	o	0.3498
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞ o	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	l	3 ∞	310	73 38	"	"	90 00	73 38	16 22	3.4051	∞	"
5	m	∞	110	48 37	"	"	"	48 37	41 23	1.1350	"	"
6	e	01	011	13 05	57 05	19 17	56 24	10 57	54 51	0.3499	1.5051	1.5452
7	d	+ 10	101	90 00	64 05	64 05	0 00	64 05	0 00	2.0581	o	2.0581
8	p	- 10	101	90 00	53 38	53 38	"	53 38	"	1.3585	"	1.3585
9	o	+ 1	111	53 49	68 35	64 05	56 24	48 43	33 20	2.0581	1.5051	2.5498
10	q	+ 1 $\frac{1}{3}$	313	76 18	64 44	"	26 38	61 28	12 22	"	0.5017	2.1184

Atopit.

Regulär.

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	$\left\{ \begin{matrix} o \\ o\infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	$\left\{ \begin{matrix} - \\ 0^\circ 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} o \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} o \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} o \\ \infty \end{matrix} \right.$
2	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 1.0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$
3	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1.0000	1.4142

Auripigment.

Rhombisch.

$a = 0.6030$	$lga = 978032$	$lga_0 = 995147$	$lg p_0 = 004853$	$a_0 = 0.8943$	$p_0 = 1.1182$
$c = 0.6743$	$lgc = 982885$	$lgb_0 = 017115$	$lg q_0 = 982885$	$b_0 = 1.4830$	$q_0 = 0.6743$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	a	00	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	b	00	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	t	70	710	85 04'	"	"	90 00	85 04'	4 55'	11'6086	∞	"
4	s	$\frac{2}{3}$ 0	320	68 06	"	"	"	68 06	21 54	2'4875	"	"
5	m	0	110	58 54'	"	"	"	58 54'	31 05'	1'6583'	"	"
6	u	02	120	39 40	"	"	"	39 40	50 20	0'8292	"	"
7	o	10	101	90 00	48 11'	48 11'	0 00	48 11'	0 00	1'1182	0	1'1182
8	p	1	111	58 54'	52 33	"	33 59'	42 50	24 12	"	0'6743	1'3058
9	β	1 $\frac{2}{3}$	232	47 52	56 27	"	45 19'	38 10'	33 59'	"	1'0114	1'5078
10	v	12	121	39 40	60 17	"	53 26'	33 40	41 57	"	1'3486	1'7519

Axinit.

Triklin.

$p_0 = 1'2810$	$\lambda = 90°05$	$a = 0'7812$	$\alpha = 91°49$	$x_0 = -0'1387$	$d = -0'1387$
$q_0 = 0'9915$	$\mu = 97°46$	$b = 1$	$\beta = 82°01$	$y_0 = -0'0014$	$\delta = 89°24$
$r_0 = 1$	$\nu = 102°30$	$c = 0'9771$	$\gamma = 102°38$	$h = 0'9903$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	m	0	001	90°34'	7°58'	7°58'	0°05	7°58'	0°04'	0'1401	0'0014	0.1401
2	c	00	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	M	00	100	102 30	"	90 00	"	77 30	12 30	4'5107	"	"
4	w	0	110	60 16'	"	"	"	60 16'	29 43'	1'7511	"	"
5	u	$\frac{0}{3}$ 0	110	135 24'	"	"	90 00	44 35'	45 24'	0'9857	"	"
6	K	$\frac{0}{5}$ 0	9'11'0	139 58'	"	"	"	40 01'	49 58'	0'8399	"	"
7	a	$\frac{1}{3}$ 0	340	141 58'	"	"	"	38 01'	51 58'	0'7820	"	"
8	H	$\frac{0}{3}$ 0	230	144 40'	"	"	"	35 19'	54 40'	0'7088	"	"
9	β	$\frac{0}{3}$ 0	350	147 03	"	"	"	32 57	57 03	0.6481	"	"
10	l	$\frac{0}{3}$ 0	120	151 23	"	"	"	28 37	61 23	0'5533	"	"
11	h	$\frac{0}{3}$ 0	130	158 58	"	"	"	21 02	68 58	0'3846	"	"
12	e	01	011	7 58'	45 16'	7 58'	44 59'	5 39'	44 43	0'1401	0'9998	1.0095
13	z	$\frac{0}{2}$ 0	012	164 24'	27 32	"	26 39'	7 08	26 26'	"	0'5021	0'5213
14	L	$\frac{0}{3}$ 0	045	170 06	39 10	"	38 44'	6 14	38 28'	"	0'8024	0'8146
15	B	$\frac{0}{6}$ 0	056	170 29	40 17	"	39 53'	6 08	39 37	"	0'8358	0'8475
16	r	01	011	172 02'	45 21	"	45 04'	5 39	44 48	"	1'0026	1'0123
17	π	02	021	176 00	63 32	"	63 29	3 35	63 15'	"	2'0039	2'0088
18	φ	03	031	177 20	71 36'	"	71 35'	2 32	71 25'	"	3'0051	3'0083

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
19	g	$\frac{1}{3}0$	103	108° 38'	16° 30'	15° 41'	5° 24'	15° 37'	5° 12'	0° 2808	0° 0947	0° 2964
20	f	$\frac{1}{2}0$	102	106 03'	27 04'	26 09'	8 03'	25 56'	7 14'	0° 4912	0° 1413	0° 5111
21	a	10	101	104 04'	49 10'	48 18'	15 42'	47 13'	10 36'	1° 1224	0° 2813	1° 1572
22	b	10	101	78 46'	55 02'	54 30'	15 33'	53 29'	9 11'	1° 4025	0° 2785	1° 4299
23	μ	$\bar{2}0$	$\bar{2}01$	78 10'	69 50'	69 26'	29 10'	66 44'	11 06'	2° 6651	0° 5584	2° 7229
24	ψ	$\frac{1}{3}$	113	49 36'	20 14'	15 41'	13 26'	15 16'	12 57'	0° 2808	0° 2390	0° 3687
25	o	$\frac{1}{2}$	112	53 49'	31 19'	26 09'	19 45'	24 48'	17 52'	0° 4911	0° 3592	0° 6085
26	δ	$\frac{1}{2}$	112	115 08'	40 26'	37 38'	19 54'	35 57'	15 59'	0° 7713	0° 3620	0° 8520
27	V	$\frac{1}{2}\frac{1}{2}$	112	50 21'	45 03'	"	32 35'	33 01'	26 50'	"	0° 6391	1° 0017
28	Y	1	111	57 19'	53 08'	48 18'	35 45'	42 20'	25 35'	1° 1224	0° 7198	1° 3335
29	x	11	111	138 48'	59 36'	"	52 03'	34 37'	40 28'	"	1° 2825	1° 7043
30	n	1	111	117 16'	57 38'	54 30'	35 51'	48 39'	22 46'	1° 4026	0° 7228	1° 5778
31	κ	$\bar{2}$	$\bar{2}\bar{2}1$	118 27'	71 44'	69 26'	55 18'	56 36'	26 54'	2° 6651	1° 4441	3° 0312
32	σ	12	121	33 06'	64 03'	48 18'	59 50'	29 25'	48 52'	1° 1224	1° 7210	1° 9947
33	W	$1\frac{1}{2}$	$2\bar{3}\bar{2}$	147 48'	64 36'	"	60 43'	28 46'	49 52'	"	1° 7831	2° 1069
34	s	12	121	153 49'	68 32'	"	66 21'	24 14'	56 38'	"	2° 2836	2° 5446
35	i	13	131	161 08'	73 56'	"	73 04'	18 06'	65 24'	"	3° 2848	3° 4713
36	d	12	121	140 52'	65 46'	54 30'	59 53'	35 08'	45 01'	1° 4026	1° 7239	2° 2224
37	ϱ	23	231	44 19'	73 40'	67 15'	67 44'	42 06'	43 22'	2° 3850	2° 4424	3° 4137
38	q	21	211	79 33'	67 35'	"	23 45'	65 23'	9 39'	"	0° 4399	2° 4252
39	v	21	211	123 14'	70 40'	"	57 23'	52 07'	31 08'	"	1° 5624	2° 8511
40	t	$\bar{2}\bar{3}$	$\bar{2}\bar{3}1$	132 32'	74 32'	69 26'	67 45'	45 15'	40 40'	2° 6651	2° 4452	3° 6169
41	ξ	$\frac{1}{3}\frac{1}{2}$	163	163 38'	63 20'	29 17'	62 22'	14 35'	59 01'	0° 5610	1° 9105	1° 9912
42	ε	$\frac{1}{2}\frac{1}{2}$	132	150 30'	57 26'	37 38'	53 44'	24 31'	47 11'	0° 7714	1° 3632	1° 5664
43	ϑ	$\frac{3}{2}\frac{1}{2}$	312	92 19'	63 50'	63 49'	4 42'	63 44'	2 04'	2° 0338	0° 0823	2° 0355
44	τ	$\frac{1}{3}\frac{1}{3}$	183	167 43'	69 14'	29 17'	68 48'	11 28'	66 01'	0° 5610	2° 5781	2° 6383
45	ζ	$\frac{2}{3}\frac{1}{3}$	215	76 37'	20 33'	20 02'	4 57'	19 58'	4 39'	0° 3649	0° 0688	0° 3751

Baddeleyit.

(Brazilit.)

Monoklin.

a = 0° 9859	lg a = 999383	lg a ₀ = 028549	lg p ₀ = 971451	a ₀ = 1° 9297	p ₀ = 0° 5182
c = 0° 5109	lg c = 970834	lg b ₀ = 029166	lg q ₀ = 970326	b ₀ = 1° 9573	q ₀ = 0° 5050
$\mu_{180-\beta} = \left. \begin{matrix} 81^\circ 15' \\ \lg h = \end{matrix} \right\} 999492$	$\lg \sin \mu = \left. \begin{matrix} 999492 \\ \lg c = \end{matrix} \right\} 918220$	$\lg \cos \mu = \left. \begin{matrix} 918220 \\ \lg \frac{p_0}{q_0} = \end{matrix} \right\} 001125$	$\lg \frac{p_0}{q_0} = 001125$	h = 0° 9884	e = 0° 1521

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	8°45	8°45	0°00	8°45	0°00	0'1539	o	0'1539
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞ 0	100	90 00	0 00	90 00	0 00	90 00	0 00	∞	o	"
4	m	∞	110	45 44'	90 00	"	90 00	45 44'	44 15'	1'0262	∞	"
5	l	∞ 2	120	27 10	"	"	"	27 10	62 50	0'5131	"	"
6	d	02	021	8 34	45 56'	8 45	45 37	6 08	45 17	0'1539	1'0218	1'0333
7	h	+10	101	90 00	34 08'	34 08'	0 00	34 08'	0 00	0'6782	o	0'6782
8	r	-10	101	90 00	20 19'	20 19'	"	20 19'	"	0'3704	"	0'3704
9	x	+1	111	53 00'	40 20	34 08'	27 04	31 08	22 55	0'6782	0'5109	0'8491
10	y	-1	111	35 57	32 15'	20 20	"	18 15'	25 36	0'3705	"	0'6311
11	n	-2	221	41 12'	53 38	41 49	45 37	32 02	37 17'	0'8947	1'0218	1'3581

Baryt.

Rhombisch.

a = 0'8152	lg a = 991126	lg a ₀ = 979280	lg p ₀ = 020720	a ₀ = 0'6206	p ₀ = 1'6114
c = 1'3136	lg c = 011846	lg b ₀ = 988154	lg q ₀ = 011846	b ₀ = 0'7613	q ₀ = 1'3136

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	o ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞ 0	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	τ	4 ∞	410	78 29	"	"	90 00	78 29	11 31	4'9067'	∞	"
5	β	3 ∞	310	74 48	"	"	"	74 48	15 12	3'6801	"	"
6	λ	2 ∞	210	67 49'	"	"	"	67 49'	22 10'	2'4534	"	"
7	II	∞	530	63 56	"	"	"	63 56	26 04	2'0445	"	"
8	η	∞	320	61 28'	"	"	"	61 28'	28 31'	1'8400'	"	"
9	h	∞	540	56 53'	"	"	"	56 53'	33 06'	1'5333'	"	"
10	m	∞	110	50 49	"	"	"	50 49	39 11	1'2267	"	"
11	N	∞	230	39 16'	"	"	"	39 16'	50 43'	0'8178	"	"
12	n	∞ 2	120	31 31'	"	"	"	31 31'	58 28'	0'6133'	"	"
13	χ	∞ 3	130	22 14'	"	"	"	22 14'	67 45'	0'4089	"	"
14	L	∞ 4	140	17 03	"	"	"	17 03	72 57	0'3066'	"	"
15	E	∞ 5	150	13 47	"	"	"	13 47	76 13	0'2453'	"	"
16	a	0 $\frac{1}{12}$	0'1'12	0 00	6 15	0 00	6 15	0 00	6 15	o	0'1094'	0'1094'
17	a	0 $\frac{1}{8}$	018	"	9 19'	"	9 19'	"	9 19'	"	0'1642	0'1642
18	S	0 $\frac{1}{4}$	014	"	18 11	"	18 11	"	18 11	"	0'3284	0'3284
19	A	0 $\frac{1}{6}$	013	"	23 39	"	23 39	"	23 39	"	0'4378'	0'4378'
20	φ	0 $\frac{1}{2}$	012	"	33 18	"	33 18	"	33 18	"	0'6568	0'6568
21	Y	0 $\frac{3}{8}$	023	"	41 12'	"	41 12'	"	41 12'	"	0'8757	0'8757

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	N (Prismen) (x : y)	y	d =tg ϱ
22	?B	0 $\frac{5}{6}$	056	0°00	47°35	0°00	47°35	0°00	47°35	0	1'0946	1'0946
23	ε	0 $\frac{8}{9}$	089	"	49 25'	"	49 25'	"	49 25'	"	1'1676	1'1676
24	o	01	011	"	52 43	"	52 43	"	52 43	"	1'3136	1'3136
25	i	02	021	"	69 10	"	69 10	"	69 10	"	2'6271	2'6271
26	Ψ	03	031	"	75 45'	"	75 45'	"	75 45'	"	3'9407	3'9407
27	x	04	041	"	79 13'	"	79 13'	"	79 13'	"	5'2543	5'2543
28	Ω	05	051	"	81 20'	"	81 20'	"	81 20'	"	6'5653	6'5653
29	$\dot{\Gamma}$	07	071	"	83 47'	"	83 47'	"	83 47'	"	9'1952	9'1952
30	β	0'10	0'10'1	"	85 39	"	85 39	"	85 39	"	13'136	13'136
31	K	$\frac{1}{9}$ 0	109	90 00	10 09	10 09	0 00	10 09	0 00	0'1790	0	0'1790
32	W	$\frac{1}{8}$ 0	108	"	11 23'	11 23'	"	11 23'	"	0'2014	"	0'2014
33	w	$\frac{1}{6}$ 0	106	"	15 02	15 02	"	15 02	"	0'2685	"	0'2685
34	σ	$\frac{1}{5}$ 0	105	"	17 52	17 52	"	17 52	"	0'3223	"	0'3223
35	l	$\frac{1}{4}$ 0	104	"	21 56'	21 56'	"	21 56'	"	0'4028	"	0'4028
36	g	$\frac{1}{3}$ 0	103	"	28 14'	28 14'	"	28 14'	"	0'5371	"	0'5371
37	e	$\frac{3}{8}$ 0	308	"	31 08'	31 08'	"	31 08'	"	0'6042	"	0'6042
38	z	$\frac{2}{5}$ 0	205	"	32 48	32 48	"	32 48	"	0'6445	"	0'6445
39	d	$\frac{1}{2}$ 0	102	"	38 51'	38 51'	"	38 51'	"	0'8057	"	0'8057
40	V	$\frac{5}{6}$ 0	508	"	45 12	45 12	"	45 12	"	1'0071	"	1'0071
41	O	$\frac{2}{3}$ 0	203	"	47 03	47 03	"	47 03	"	1'0742	"	1'0742
42	r	$\frac{4}{5}$ 0	405	"	52 13	52 13	"	52 13	"	1'2892	"	1'2892
43	h	$\frac{2}{3}$ $\frac{1}{2}$ 0	23'0'24	"	57 04'	57 04'	"	57 04'	"	1'5442	"	1'5442
44	u	$\frac{1}{10}$ 0	101	"	58 10'	58 10'	"	58 10'	"	1'6114	"	1'6114
45	D	$\frac{3}{2}$ 0	302	"	67 31'	67 31'	"	67 31'	"	2'4170	"	2'4170
46	U	20	201	"	72 45'	72 48'	"	72 45'	"	3'2228	"	3'2228
47	e	$\frac{1}{20}$ 0	1'1'20	50 49	5 56'	4 36'	3 40'	4 36'	3 45'	0'0805	0'0657	0'1039
48	j	$\frac{1}{10}$ 0	1'1'10	"	11 44'	9 09'	7 29'	9 04'	7 23'	0'1611	0'1313	0'2079
49	H	$\frac{1}{9}$ 0	119	"	13 00'	10 09'	8 18'	10 03'	8 10'	0'1790	0'1459	0'2310
50	k	$\frac{1}{8}$ 0	118	"	14 34'	11 23'	9 19'	11 14'	9 08'	0'2014	0'1642	0'2599
51	P	$\frac{1}{6}$ 0	116	"	19 06'	15 02'	12 21'	14 42'	11 56'	0'2685	0'2189	0'3465
52	"	$\frac{1}{5}$ 0	115	"	22 34'	17 52'	14 43'	17 19'	14 02'	0'3222	0'2627	0'4158
53	q	$\frac{1}{4}$ 0	114	"	27 28'	21 56'	18 11'	20 56'	16 56'	0'4028	0'3284	0'5197
54	f	$\frac{1}{3}$ 0	113	"	34 43'	28 14'	23 39'	26 12'	21 05'	0'5371	0'4378	0'6930
55	r	$\frac{1}{2}$ 0	112	"	46 06'	38 51'	33 17'	33 57'	27 05'	0'8057	0'6568	1'0395
56	R	$\frac{2}{3}$ 0	223	"	54 11'	47 03'	41 12'	38 56'	30 49'	1'0743	0'8757	1'3860
57	λ	$\frac{3}{4}$ 0	334	"	57 19'	50 23'	44 34'	40 43'	32 08'	1'2085	0'9852	1'5592
58	z	1	111	"	64 18'	58 10'	52 43'	44 18'	34 42'	1'6114	1'3136	2'0790
59	p	4	441	"	83 08'	81 11'	79 13'	50 18'	38 51'	6'4453	5'2544	8'3160
60	δ	1 $\frac{1}{4}$	414	78 29	58 42'	58 10'	18 11'	56 51'	9 49'	1'6114	0'3284	1'6445
61	ω	1 $\frac{1}{3}$	313	74 48	59 05'	"	23 39'	55 53'	13 00'	"	0'4378	1'6698
62	ν	1 $\frac{1}{2}$	212	67 49'	60 07'	"	33 17'	53 24'	19 06'	"	0'6568	1'7402
63	Σ	12	121	31 31'	72 01'	"	69 09'	29 49'	54 10'	"	2'6272	3'0820

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
64	Φ	13	131	22° 14'	76° 47'	58° 10'	75° 45'	21° 37'	64° 18'	1:6114	3:9407	4:5274
65	T	14	141	17 03	79 41	"	79 13'	16 46	70 09	"	5:2544	5:4959
66	E	15	151	13 47	81 35'	"	81 20'	13 38	73 54	"	6:5680	6:7627
67	ψ	$\frac{1}{6}1$	166	11 33'	53 17	15 02	52 43	9 14'	51 45	0:2685	1:3136	1:3407
68	Q	$\frac{1}{5}1$	155	13 47	53 31'	17 52	"	11 03	51 21	0:3222	"	1:3525
69	ϱ	$\frac{1}{4}1$	144	17 03	53 57	21 56'	"	13 43	50 37'	0:4028	"	1:3740
70	J	$\frac{1}{3}1$	133	22 14'	54 50	28 14'	"	18 01'	49 10	0:5371	"	1:4192
71	y	$\frac{1}{2}1$	122	31 31'	57 01	38 51'	"	26 01	45 39	0:8057	"	1:5410
72	b	$\frac{3}{4}1$	344	42 38	60 44'	50 23'	"	36 12'	39 56'	1:2085	"	1:7850
73	s	$\frac{1}{2}\frac{3}{2}$	132	22 14'	64 50	38 51'	63 05'	20 02	56 54'	0:8057	1:9703	2:1287
74	ξ	$\frac{1}{2}2$	142	17 03	70 00	"	69 09'	15 59'	63 57'	"	2:6272	2:7479
75	i	$\frac{1}{6}\frac{1}{2}$	136	22 14'	35 21'	15 02	33 17	12 39	32 23	0:2685	0:6568	0:7096
76	μ	$\frac{1}{4}\frac{1}{2}$	124	31 31'	37 37	21 56'	"	18 36'	31 21	0:4028	"	0:7705
77	A	$\frac{5}{4}\frac{1}{2}$	524	71 56'	64 44	63 36	"	59 17'	16 17	2:0142	"	2:1186
78	γ	$\frac{3}{2}\frac{1}{2}$	312	74 48	68 14	67 31'	"	63 40	14 05'	2:4170	"	2:5047
79	t	$\frac{11}{6}\frac{1}{2}$	11:3:6	77 28	71 43	71 18	"	67 57'	11 53'	2:9542	"	3:0263
80	δ	$\frac{1}{3}\frac{7}{6}$	276	19 19	58 22'	28 14'	56 52'	16 21'	53 28'	0:5371	1:5325	1:6237
81	G	$\frac{1}{3}\frac{5}{3}$	153	13 47	66 04'	"	65 27	12 35	62 35'	"	2:1893	2:2542
82	A	$\frac{3}{2}\frac{3}{10}$	362	31 31'	77 47'	67 31'	75 45'	30 44	56 25'	2:4170	3:9407	4:6230
83	X	$\frac{3}{2}\frac{7}{10}$	15:3:10	80 44'	67 47'	"	21 30'	66 01'	8 34	"	0:3940	2:4490
84	f	$\frac{3}{4}\frac{3}{2}$	364	31 31'	66 36'	50 23'	63 05'	28 40'	51 28'	1:2085	1:9703	2:3115
85	Γ	$\frac{1}{12}\frac{2}{3}$	1:8:12	8 43	41 32'	7 39	41 12'	5 46	40 57'	0:1342	0:8757	0:8860
86	π	$\frac{3}{2}\frac{7}{6}$	916	84 49'	67 36'	67 31'	12 21	67 02'	4 47	2:4170	0:2189	2:4269
87	F	$\frac{1}{6}\frac{2}{3}$	146	17 03	42 29'	15 15	41 12'	11 25'	40 13'	0:2685	0:8757	0:9160
88	ζ	$\frac{1}{4}\frac{5}{6}$	154	13 47	59 24	21 56'	58 39'	11 50	56 42'	0:4028	1:6420	1:6907
89	ϑ	$\frac{1}{6}\frac{7}{6}$	176	9 56'	57 16	15 15	56 52'	8 21	55 57'	0:2685	1:5325	1:5559
90	b	$\frac{7}{6}\frac{3}{24}$	28:7:24	78 29	62 28	61 59'	20 58	60 20	10 12	1:8800	0:3831	1:9186
91	o	$\frac{2}{3}\frac{1}{3}$	213	67 49'	49 14'	47 03	23 39	44 32'	16 36'	1:0743	0:4378	1:1601
92	C	$\frac{3}{4}\frac{1}{2}$	324	61 28'	53 59	50 23'	33 18	45 17'	22 43	1:2085	0:6568	1:3755
93	Z	$\frac{1}{8}\frac{1}{4}$	128	31 31'	21 04	11 23'	18 11	10 50	17 50'	0:2014	0:3284	0:3852
94	t	$\frac{3}{4}\frac{3}{2}$	364	"	66 36'	50 23'	63 05'	28 40'	51 28'	1:2085	1:9704	2:3115
95	m	$\frac{1}{7}\frac{5}{7}$	157	13 47	44 00'	12 58	43 10'	9 32	42 26	0:2302	0:9383	0:9661
96	n	$\frac{2}{11}\frac{5}{11}$	2:5:11	26 08	33 37'	16 20	30 50'	14 07	29 49	0:2930	0:5971	0:6651

Barytocalcit.

Monoklin.

a = 1:2507	lg a = 009716	lg a ₀ = 016897	lg p ₀ = 983103	a ₀ = 1:4756	p ₀ = 0:6777
c = 0:8476	lg c = 992819	lg b ₀ = 007181	lg q ₀ = 987001	b ₀ = 1:1798	q ₀ = 0:7413
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 61^{\circ}00$	lg h = $\left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 994182$	lg e = $\left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 968557$	lg $\frac{p_0}{q_0}$ = 996102	h = 0:8746	e = 0:4848

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tg ϱ
1	h	0	001	90° 00	29° 00	29° 00	0° 00	29° 00	0° 00	0'5543	0	0'5543
2	m	∞	110	42 26	90 00	90 00	90 00	42 26	47 34	0'9141	∞	∞
3	r	∞_3	130	16 57	"	"	"	16 57	73 03	0'3047	"	"
4	y	$\infty_{\frac{5}{2}}$	250	20 05	"	"	"	20 05	69 55	0'3656	"	"
5	s	01	011	33 11	45 22	29 00	40 17	22 55	36 33	0'5543	0'8476	1'0128
6	v	02	021	18 06	60 43	"	59 28	15 43	56 01	"	1'6952	1'7835
7	c	-10	101	90 00	12 26	12 26	0 00	12 26	0 00	0'2205	0	0'2205
8	p	-20	201	"	44 52	44 52	"	44 52	"	0'9954	"	0'9954

Barytsalpeter.

Regulär. Tetartoedrisch.

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} - \\ 0^\circ 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$
2	a	$\left\{ \begin{array}{l} \pm 0\frac{1}{3} \\ \pm 0_3 \\ \pm \infty_3 \end{array} \right.$	$\left\{ \begin{array}{l} 013 \\ 031 \\ 130 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 18 26 \end{array} \right.$	$\left\{ \begin{array}{l} 18 26 \\ 71 34 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 18 26 \\ 71 34 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 18 26 \end{array} \right.$	$\left\{ \begin{array}{l} 18 26 \\ 71 34 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 0'3333 \end{array} \right.$	$\left\{ \begin{array}{l} 0'3333 \\ 3'0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0'3333 \\ 3'0000 \\ \infty \end{array} \right.$
3	e	$\left\{ \begin{array}{l} \pm 0\frac{1}{2} \\ \pm 0_2 \\ \pm \infty_2 \end{array} \right.$	$\left\{ \begin{array}{l} 012 \\ 021 \\ 120 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ " \\ 0'5000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'5000 \\ 2'0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0'5000 \\ 2'0000 \\ \infty \end{array} \right.$
4	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 011 \\ 110 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ 45 00 \end{array} \right.$	$\left\{ \begin{array}{l} 45 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 45 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ 45 00 \end{array} \right.$	$\left\{ \begin{array}{l} 45 00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ 1'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 1'0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 1'0000 \\ \infty \end{array} \right.$
5	l	$\left\{ \begin{array}{l} -\frac{1}{5} \\ -15 \end{array} \right.$	$\left\{ \begin{array}{l} 115 \\ 151 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ 11 18' \end{array} \right.$	$\left\{ \begin{array}{l} 15 47' \\ 78 54 \end{array} \right.$	$\left\{ \begin{array}{l} 11 18' \\ 45 00 \end{array} \right.$	$\left\{ \begin{array}{l} 11 18' \\ 78 41' \end{array} \right.$	$\left\{ \begin{array}{l} 11 06 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 11 06 \\ 74 12' \end{array} \right.$	$\left\{ \begin{array}{l} 0'2000 \\ 1'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'2000 \\ 5'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'2828 \\ 5'0989 \end{array} \right.$
6	m	$\left\{ \begin{array}{l} +\frac{1}{3} \\ +13 \end{array} \right.$	$\left\{ \begin{array}{l} 113 \\ 131 \end{array} \right.$	$\left\{ \begin{array}{l} 45 00 \\ 18 26 \end{array} \right.$	$\left\{ \begin{array}{l} 25 14' \\ 72 27 \end{array} \right.$	$\left\{ \begin{array}{l} 18 26 \\ 45 00 \end{array} \right.$	$\left\{ \begin{array}{l} 18 26 \\ 71 34 \end{array} \right.$	$\left\{ \begin{array}{l} 17 33 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 17 33 \\ 64 45' \end{array} \right.$	$\left\{ \begin{array}{l} 0'3333 \\ 1'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'3333 \\ 3'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'4714 \\ 3'1623 \end{array} \right.$
7	M	$\left\{ \begin{array}{l} +\frac{3}{8} \\ +1\frac{3}{8} \end{array} \right.$	$\left\{ \begin{array}{l} 338 \\ 383 \end{array} \right.$	$\left\{ \begin{array}{l} 45 00 \\ 20 33' \end{array} \right.$	$\left\{ \begin{array}{l} 27 56' \\ 70 39 \end{array} \right.$	$\left\{ \begin{array}{l} 20 33' \\ 45 00 \end{array} \right.$	$\left\{ \begin{array}{l} 20 33' \\ 69 26' \end{array} \right.$	$\left\{ \begin{array}{l} 19 21 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 19 21 \\ 62 03' \end{array} \right.$	$\left\{ \begin{array}{l} 0'3750 \\ 1'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'3750 \\ 2'6667 \end{array} \right.$	$\left\{ \begin{array}{l} 0'5303 \\ 2'8480 \end{array} \right.$
8	q	$\left\{ \begin{array}{l} \pm\frac{1}{2} \\ \pm 12 \end{array} \right.$	$\left\{ \begin{array}{l} 112 \\ 121 \end{array} \right.$	$\left\{ \begin{array}{l} 45 00 \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 35 16 \\ 65 54' \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 45 00 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \end{array} \right.$	$\left\{ \begin{array}{l} 24 05' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 24 05' \\ 54 44 \end{array} \right.$	$\left\{ \begin{array}{l} 0'5000 \\ 1'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'5000 \\ 2'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'7071 \\ 2'2360 \end{array} \right.$
9	p	± 1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
10	u	$\left\{ \begin{array}{l} -\frac{1}{2} \\ -2 \end{array} \right.$	$\left\{ \begin{array}{l} 122 \\ 221 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 45 00 \end{array} \right.$	$\left\{ \begin{array}{l} 48 11' \\ 70 31' \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ 63 26 \end{array} \right.$	$\left\{ \begin{array}{l} 19 28 \\ 41 48' \end{array} \right.$	$\left\{ \begin{array}{l} 41 48' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0'5000 \\ 2'0000 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ 2'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 1'1180 \\ 2'8284 \end{array} \right.$
11	ψ	$\left\{ \begin{array}{l} \pm\frac{1}{2} \\ \pm\frac{1}{2} \\ \pm 24 \end{array} \right.$	$\left\{ \begin{array}{l} 124 \\ 142 \\ 241 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 14 02 \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 29 12' \\ 64 07' \\ 77 23' \end{array} \right.$	$\left\{ \begin{array}{l} 14 02 \\ 26 34 \\ 63 26 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 75 58 \end{array} \right.$	$\left\{ \begin{array}{l} 12 36' \\ " \\ 25 52' \end{array} \right.$	$\left\{ \begin{array}{l} 25 52' \\ 60 47' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0'2500 \\ 0'5000 \\ 2'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'5000 \\ 2'0000 \\ 4'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'5590 \\ 2'0615 \\ 4'4721 \end{array} \right.$
12	z	$\left\{ \begin{array}{l} +\frac{1}{3} \\ +\frac{1}{3} \\ +35 \end{array} \right.$	$\left\{ \begin{array}{l} 135 \\ 153 \\ 351 \end{array} \right.$	$\left\{ \begin{array}{l} 18 26 \\ 11 18' \\ 30 58 \end{array} \right.$	$\left\{ \begin{array}{l} 32 18' \\ 59 32 \end{array} \right.$	$\left\{ \begin{array}{l} 11 18' \\ 18 26 \\ 71 34 \end{array} \right.$	$\left\{ \begin{array}{l} 30 58 \\ 59 02 \\ 78 41' \end{array} \right.$	$\left\{ \begin{array}{l} 9 44 \\ " \\ 30 28 \end{array} \right.$	$\left\{ \begin{array}{l} 30 28 \\ 57 41' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0'2000 \\ 0'3333 \\ 3'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'6000 \\ 1'6667 \\ 5'0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'6325 \\ 1'6996 \\ 5'8310 \end{array} \right.$

Beegerit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ '' \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ '' \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 \\ '' \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1'0000	1'0000	1'4142

Belonesit.

Tetragonal.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.6605$	$\lg c = 981987$	$\lg a_0 = 018013$	$a_0 = 1.5140$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	m	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
3	p	1	111	"	43 03	33 26'	33 26'	28 51'	28 51'	0.6605	0.6605	0.9341

Bertrandit.

Rhombisch.

$a = 0.5688$	$\lg a = 975496$	$\lg a_0 = 997877$	$\lg p_0 = 002123$	$a_0 = 0.9523$	$p_0 = 1.0501$
$c = 0.5973$	$\lg c = 977619$	$\lg b_0 = 022381$	$\lg q_0 = 977619$	$b_0 = 1.6742$	$q_0 = 0.5793$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	0	001	-	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	c	0∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	h	3∞	310	79 16	"	"	90 00	79 16	10 44	5'2742'	∞	"
5	g	\sim	110	60 22	"	"	"	60 22	29 38	1'7582	"	"
6	f	$\infty 3$	130	30 22'	"	"	"	30 22'	59 37'	0.5860'	"	"
7	i	$0\frac{4}{9}$	049	0 00	14 52	0 00	14 52	0 00	14 52	0	0.2654'	0.2654'
8	e	01	011	"	30 51	"	30 51	"	30 51	"	0.5973	0.5973
9	η	02	021	"	50 04	"	50 04	"	50 04	"	1.1946	1.1946
10	d	03	031	"	60 50	"	60 50	"	60 50	"	1.7919	1.7919
11	δ	$\frac{1}{2}0$	102	90 00	27 42	27 42	0 00	27 42	0 00	0.5250'	0	0.5250'
12	x	$\frac{1}{2}3$	162	16 20	61 50	"	60 50	14 21	57 47	"	1.7917'	1.8673

Beryll.

Hexagonal.

$c = 0.8643$	$\lg c = 993666$	$\lg a_0 = 030190$	$\lg p_0 = 976057$	$a_0 = 2.0040$	$p_0 = 0.5762$	(G_1)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	ζ	13∞	13.1.14.0	3 40	"	"	"	3 40	86 20	0.0641	"	"
5	ε	5∞	5160	8 57	"	"	"	8 57	81 03	0.1575	"	"
6	i	2∞	2130	19 06	"	"	"	19 06	70 53	0.3464	"	"
7	ρ	$\frac{1}{4}0$	1.0.1.14	0 00	2 21	0 00	2 21	0 00	2 21	0	0.0412	0.0412
8	ψ	$\frac{1}{2}0$	1.0.1.12	"	2 45	"	2 45	"	2 45	"	0.0480	0.0480
9	τ	$\frac{2}{3}0$	2025	"	12 58	"	12 58	"	12 58	"	0.2305	0.2305
10	π	$\frac{1}{2}0$	1012	"	16 04	"	16 04	"	16 04	"	0.2881	0.2881
11	p	10	1011	"	29 57	"	29 57	"	29 57	"	0.5762	0.5762
12	r	$\frac{3}{2}0$	3032	"	40 50	"	40 50	"	40 50	"	0.8643	0.8643
13	u	20	2021	"	49 03	"	49 03	"	49 03	"	1.1524	1.1524
14	θ	30	3031	"	59 57	"	59 57	"	59 57	"	1.7286	1.7286
15	λ	$\frac{7}{2}0$	7072	"	63 37	"	63 37	"	63 37	"	2.0167	2.0167
16	t	40	4041	"	66 32	"	66 32	"	66 32	"	2.3058	2.3058
17	Ω	50	5051	"	70 51	"	70 51	"	70 51	"	2.8810	2.8810
18	x	$\frac{15}{2}0$	15.0.15.2	"	76 58	"	76 58	"	76 58	"	4.3215	4.3215
19	T	12.0	12.0.12.1	"	81 46	"	81 46	"	81 46	"	6.9143	6.9143
20	e	$\frac{3}{2}0$	39.0.39.2	"	84 55	"	84 55	"	84 55	"	1.1236	1.1236
21	ω	$\frac{1}{12}0$	1.1.2.12	30 00	4 45	2 23	4 07	2 22	4 07	0.0416	0.0720	0.0832
22	q	$\frac{3}{10}0$	3.3.6.10	"	16 40	8 31	14 32	8 14	14 23	0.1497	0.2593	0.2994
23	σ	$\frac{1}{3}0$	1.1.2.3	"	18 24	9 26	16 04	9 05	15 52	0.1663	0.2881	0.3327
24	o	$\frac{1}{2}0$	1122	"	26 31	14 00	23 22	12 54	22 45	0.2495	0.4321	0.4990
25	D	$\frac{2}{3}0$	2243	"	33 38	18 24	29 57	16 05	28 40	0.3327	0.5762	0.6653
26	δ	$\frac{5}{7}0$	5.5.10.7	"	35 29	19 37	31 41	16 52	30 11	0.3564	0.6173	0.7128
27	d	$\frac{3}{4}0$	3364	"	36 49	20 31	32 57	17 26	31 51	0.3742	0.6482	0.7485
28	s	1	1121	"	44 56	26 31	40 50	20 41	37 43	0.4990	0.8643	0.9980
29	f	3	3361	"	71 32	56 15	68 54	28 18	55 13	1.4970	2.5928	2.9940
30	Φ	6	6.6.12.1	"	80 31	71 32	79 05	29 33	58 40	2.9940	5.1857	5.9880
31	Δ	$\frac{2}{3}\frac{1}{3}$	2133	19 06	26 56	9 26	25 39	8 31	25 20	0.1663	0.4802	0.5082
32	g	$1\frac{1}{3}$	5165	8 57	32 41	5 42	32 22	4 49	32 14	0.0998	0.6338	0.6416
33	χ	$1\frac{7}{2}$	9.7.16.9	25 52	41 39	21 12	38 40	16 51	36 43	0.3881	0.8003	0.8894
34	A	$\frac{8}{7}1$	8.7.15.7	27 48	46 56	26 31	43 26	19 55	40 16	0.4990	0.9466	1.0701
35	B	$2\frac{5}{2}1$	5494	26 20	48 22	"	45 14	19 21	42 03	"	1.0084	1.1251

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
36	v	2I	21 $\bar{3}$ I	19°06'	56°44'	26°31'	55°14'	15°53'	52°11'	0'4990	1'4405	1'5245
37	n	3I	31 $\bar{4}$ I	13 54	64 18	"	63 37	12 30	61 00	"	2 0167	2'0775
38	v	5I	51 $\bar{6}$ I	8 57	72 41	"	72 29	8 32	70 34	"	3'1691	3'2082
39	m	$\frac{1}{2}$ I	11'2'13'2	8 13	74 01	"	73 52	7 53	72 05	"	3'4572	3'4930
40	w	7I	71 $\bar{8}$ I	6 35	77 03	"	76 58	6 25	75 30	"	4'3215	4'3502
41	β	11'I	11'1'12'I	4 18	81 26	"	81 25	4 15	80 25	"	6'6263	6'6451
42	y	13'I	13'1'14'I	3 40	82 41	"	82 40	3 38	81 49	"	7'7786	7'7946
43	h	19'I	19'1'20'I	2 32	84 55	"	84 54	2 32	84 19	"	11'236	11'247
44	γ	$\frac{7}{4}$ I	71 $\bar{8}$ A	6 35	47 24	7 06	47 12	4 50	46 59	0'1247	1'0804	1'0876
45	z	$\frac{4}{3}$ I	42 $\bar{0}$ 3	19 06	45 28	18 24	43 50	13 29	42 20	0'3327	0'9603	1'0163
46	k	$\frac{4}{2}$	42 $\bar{6}$ I	"	71 50	44 56	70 51	18 07	63 52	0'9980	2'8810	3'0489
47	Σ	16'8	16'8'24'I	"	85 19	75 56	85 02	19 02	70 21	3'9920	11'524	12'196
48	X	$\frac{36}{5}$ $\frac{24}{5}$	26'24'50'5	23 25	80 35	67 20	79 45	23 05	64 52	2'3952	5'5315	6'0279
49	? Ψ	$\frac{9}{8}$	9'7'16'8	25 52	45 01	23 35	42 00	17 58	39 31	0'4366	0'9003	1'0006

Beryllonit.

Rhombisch.

a = 0'5724	lg a = 975770	lga ₀ = 001813	lgp ₀ = 998187	a ₀ = 1'0426	p ₀ = 0'9591
c = 0'5490	lg c = 973957	lgb ₀ = 026043	lq ₀ = 973957	b ₀ = 1'8215	q ₀ = 0'5490

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	∞	010	0°00	90 00	"	90 00	"	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	g	4∞	410	81 51	"	"	90 00	81 51	8 08	6'9880	∞	"
5	h	3∞	310	79 12	"	"	"	79 12	10 48	5'2410	"	"
6	i	2∞	210	74 01	"	"	"	74 01	15 58	3'4940	"	"
7	j	$\frac{3}{2}$ ∞	320	69 07	"	"	"	69 07	20 53	2'6204	"	"
8	m	∞	110	60 13	"	"	"	60 13	29 47	1'7470	"	"
9	k	$\frac{3}{2}$ ∞	230	49 21	"	"	"	49 21	40 39	1'1646	"	"
10	l	∞2	120	41 08	"	"	"	41 08	48 52	0'8735	"	"
11	n	∞3	130	30 13	"	"	"	30 13	59 47	0'5823	"	"
12	o	∞4	140	23 35	"	"	"	23 35	66 24	0'4367	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg e
13	π	∞_5	150	19° 15'	90° 00'	90° 00'	90° 00'	19° 15'	70° 44'	0'3494	∞	∞
14	p	∞_6	160	16 14	"	"	"	16 14	73 46	0'2911	"	"
15	q	∞_{12}	1'12'0	8 17	"	"	"	8 17	81 43	0'1456	"	"
16	a	$0\frac{1}{4}$	014	0 00	7 49	0 00	7 49	0 00	7 49	0	0'1372	0'1372
17	β	$0\frac{1}{3}$	013	"	10 22	"	10 22	"	10 22	"	0'1830	0'1830
18	γ	$0\frac{1}{2}$	012	"	15 21	"	15 21	"	15 21	"	0'2745	0'2745
19	δ	$0\frac{2}{3}$	023	"	20 06	"	20 06	"	20 06	"	0'3660	0'3660
20	ε	01	011	"	28 46	"	28 46	"	28 46	"	0'5490	0'5490
21	ζ	$0\frac{3}{2}$	032	"	39 28	"	39 28	"	39 28	"	0'8235	0'8235
22	η	02	021	"	47 40'	"	47 40'	"	47 40'	"	1'0980	1'0980
23	ϑ	03	031	"	58 44	"	58 44	"	58 44	"	1'6470	1'6470
24	\varkappa	04	041	"	65 31	"	65 31	"	65 31	"	2'1960	2'1960
25	λ	05	051	"	69 59	"	69 59	"	69 59	"	2'7450	2'7450
26	μ	06	061	"	73 07	"	73 07	"	73 07	"	3'2940	3'2940
27	d	$\frac{1}{2}0$	102	90 00	25 37	25 37	0 00	25 37	0 00	0'4795	0	0'4795
28	e	10	101	"	43 48	43 48	"	43 48	"	0'9591	"	0'9591
29	f	20	201	"	62 28	62 28	"	62 28	"	1'9182	"	1'9182
30	ψ	$\frac{1}{2}$	112	60 13	28 55'	25 37	15 21	24 49	13 54	0'4795	0'2745	0'5526
31	v	1	111	"	47 51'	43 48	28 46	40 03	21 37	0'9590	0'5490	1'1051
32	s	2	221	"	65 39'	62 28	47 40'	52 15	26 55	1'9182	1'0980	2'2102
33	Δ	3	331	"	73 13	70 50	58 44	56 11'	28 24	2'8773	1'6470	3'3154
34	u	$1\frac{1}{2}$	212	74 01'	44 56	43 48	15 21	42 46	11 12	0'9590	0'2745	0'9976
35	φ	$1\frac{3}{2}$	232	49 21	51 39	"	39 28	36 31	30 43	"	0'8235	1'2641
36	w	12	121	41 08	55 33	"	47 40'	32 51	38 24	"	1'0980	1'4579
37	x	13	131	30 13	62 19	"	58 44	26 27'	49 55'	"	1'6470	1'9059
38	y	14	141	23 35'	67 21	"	65 31	21 40'	57 45	"	2'1960	2'3963
39	z	15	151	19 15'	71 01'	"	69 59	18 10'	63 13	"	2'7450	2'9077
40	ω	16	161	16 14	73 45	"	73 07	15 34	67 11	"	3'2940	3'4308
41	χ	$\frac{1}{2}1$	122	41 08	36 05'	25 37	28 46	22 48	26 20	0'4795	0'5490	0'7289
42	r	21	211	74 01'	63 23	62 28	"	59 15'	14 14	1'9182	"	1'9952
43	R	41	411	81 51'	75 32	75 23'	"	73 26'	7 53	3'8364	"	3'8754
44	t	23	231	49 21	68 25	62 28	58 44	44 52'	37 17	1'9182	1'6470	2'5282
45	τ	$\frac{1}{3}2$	163	16 14	48 50	17 44	47 40'	12 09	46 17	0'3197	1'0980	1'1436
46	Q	$\frac{1}{2}2$	142	23 35'	50 09	25 37	"	17 53'	44 43	0'4795	"	1'1981
47	T	$\frac{4}{2}$	421	74 01'	75 56	75 23'	"	68 50'	15 29	3'8364	"	3'9904
48	σ	$\frac{1}{2}\frac{3}{2}$	132	30 13	43 37	25 37	39 28	20 19	36 36	0'4795	0'8235	0'9530
49	ϱ	$\frac{1}{3}\frac{2}{3}$	123	41 08	25 55	17 44	20 06	16 42'	19 13	0'3197	0'3660	4'8595

Berzeliit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
			010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	012	"	26 34	"	26 34	"	26 34	"	0'5000	0'5000
			021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
			120	26 34	90 00	90 00	90 00	26 34	"	0,5000	∞	∞
3	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
4	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112	"	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360

Beudantit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1'1842 \quad | \lg c = 007342 \quad | \lg a_0 = 016514 \quad | \lg p_0 = 989733 \quad | a_0 = 1'4626 \quad | p_0 = 0'7895 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	V v	± 5	5'5'10'1	30°00	81 40'	73 41'	80 25	29 39	58 58'	3'4185	5'9209	6'8369
3	u	-4	4481	"	79 38'	69 55	78 05	29 28	58 25	2'7347	4'7368	5'4695
4	t	$-\frac{5}{2}$	5'5'10'2	"	73 41'	59 40	71 20	28 40'	56 13	1'7092	2'9605	3'4185
5	s	-2	2241	"	69 55	53 49	67 06'	28 00'	54 25'	1'3674	2'3684	2'7348
6	R r	± 1	1121	"	53 49'	34 21'	49 49	23 48	44 21	0'6837	1'1842	1'3674

Beyrichtit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 0'3277 \quad | \lg c = 951548 \quad | \lg a_0 = 072306 \quad | \lg p_0 = 933939 \quad | a_0 = 5'2852 \quad | p_0 = 0'2185 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	$\infty 0$	1010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
3	i	2 ∞	2130	19 06'	"	"	"	19 06'	70 53'	0'3464	"	"
4	r	$+\frac{1}{2}$	1121	30 00	20 43'	10 43	18 08'	10 11'	17 51	0'1892	0'3277	0'3784
5	e	$-\frac{1}{2}$	1122	"	10 43	5 24	9 18'	5 20	9 16	0'0946	0'1638	0'1892

Bieberit.

Monoklin.

a = 1'1814	lg a = 007240	lg a ₀ = 988705	lg p ₀ = 011294	a ₀ = 0'7710	p ₀ = 1'2970
c = 1'5323	lg c = 018534	lg b ₀ = 981465	lg q ₀ = 017095	b ₀ = 0'6526	q ₀ = 1'4824
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 75^\circ 20'$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 998561$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 940346$	lg $\frac{p_0}{q_0}$ = 994199	h = 0'9674	e = 0'2532

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	0	001	90° 00	14° 40	14° 40	0° 00	14° 40	0° 00	0'2617	0	0'2617
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	m	∞	110	41 11	"	90 00	"	41 11	48 49	0'8749	"	"
4	e	0 $\frac{1}{3}$	013	27 08	29 51	14 40	27 03'	13 07	26 17'	0'2617	0'5107	0'5739
5	o	01	011	9 41'	57 15	"	56 52	8 08'	56 00	"	1'5323	1'5545
6	f	$\frac{+}{-} 10$	103	90 00	35 19'	35 19'	0 00	35 19'	0 00	0'7086	0	0'7086
7	v	$\frac{+}{-} 10$	101	"	58 02	58 02	"	58 02	"	1'6025	"	1'6025
8	t	$\frac{+}{-} 10$	101	90 00	47 10'	47 10'	"	47 10'	"	1'0790	"	1'0790
9	n	$\frac{+}{-} 12$	121	27 36'	73 52'	58 02	71 55'	26 26	58 21	1'6024	3'0646	3'4582
10	p	$\frac{+}{-} 1$	111	46 17	65 43'	"	56 52	41 12'	39 03	"	1'5323	2'2171
11	r	$\frac{+}{-} 12$	121	19 24	72 53'	47 10'	71 55'	18 30'	64 21'	1'0790	3'0646	3'2489

Binnit.

Regulär. Tetraedrisch-hemiedrisch.

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	$\left\{ \begin{matrix} - \\ 0^\circ 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$
2	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 1'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 1'0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 1'0000 \\ \infty \end{matrix} \right.$
3	μ	$\left\{ \begin{matrix} \frac{1}{10} \\ 1'10 \end{matrix} \right.$	$\left\{ \begin{matrix} 1'1'10 \\ 1'10'1 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 5 42' \end{matrix} \right.$	$\left\{ \begin{matrix} 8 03 \\ 84 19 \end{matrix} \right.$	$\left\{ \begin{matrix} 5 42' \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 5 42' \\ 84 17' \end{matrix} \right.$	$\left\{ \begin{matrix} 5 41' \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 5 41' \\ 81 57 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'1000 \\ 1'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'1000 \\ 10'000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'1414 \\ 10'050 \end{matrix} \right.$
4	s	$\left\{ \begin{matrix} \frac{1}{7} \\ 17 \end{matrix} \right.$	$\left\{ \begin{matrix} 117 \\ 171 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 8 08 \end{matrix} \right.$	$\left\{ \begin{matrix} 11 25' \\ 81 57 \end{matrix} \right.$	$\left\{ \begin{matrix} 8 07' \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 8 07' \\ 81 52 \end{matrix} \right.$	$\left\{ \begin{matrix} 8 03 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 8 03 \\ 78 35' \end{matrix} \right.$	$\left\{ \begin{matrix} 0'1429 \\ 1'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'1429 \\ 7'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'2020 \\ 7'0710 \end{matrix} \right.$
5	r	$\left\{ \begin{matrix} \frac{1}{6} \\ 16 \end{matrix} \right.$	$\left\{ \begin{matrix} 116 \\ 161 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 9 27' \end{matrix} \right.$	$\left\{ \begin{matrix} 13 15' \\ 80 40 \end{matrix} \right.$	$\left\{ \begin{matrix} 9 27' \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 9 27' \\ 80 32 \end{matrix} \right.$	$\left\{ \begin{matrix} 9 20 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 9 20 \\ 76 44 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'1667 \\ 1'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'1667 \\ 6'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'2357 \\ 6'0827 \end{matrix} \right.$
6	k	$\left\{ \begin{matrix} \frac{1}{4} \\ 14 \end{matrix} \right.$	$\left\{ \begin{matrix} 114 \\ 141 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 14 02 \end{matrix} \right.$	$\left\{ \begin{matrix} 19 28 \\ 76 22 \end{matrix} \right.$	$\left\{ \begin{matrix} 14 02 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 14 02 \\ 75 58 \end{matrix} \right.$	$\left\{ \begin{matrix} 13 38 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 13 38 \\ 70 32 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'2500 \\ 1'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'2500 \\ 4'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'3535 \\ 4'1231 \end{matrix} \right.$
7	q	$\left\{ \begin{matrix} \frac{1}{2} \\ 12 \end{matrix} \right.$	$\left\{ \begin{matrix} 112 \\ 121 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 26 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 35 16 \\ 65 54' \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \end{matrix} \right.$	$\left\{ \begin{matrix} 24 05' \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 24 05' \\ 54 44 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'5000 \\ 1'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'5000 \\ 2'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'7071 \\ 2'2360 \end{matrix} \right.$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =lg ϱ
8	p	I	111	45°00	54°44	45°00	45°00	35°16	35°16	1'0000	1'0000	1'4142
9	φ	$\left\{ \begin{array}{l} \frac{1}{4}I \\ 4 \end{array} \right.$	144	14 02	45 52	14 02	"	10 01	44 08	0'2500	"	1'0308
			441	45 00	79 58	75 58	75 58	44 08	"	4'0000	4'0000	5'6567
10	w	$\left\{ \begin{array}{l} \frac{2}{3}I \\ \frac{3}{2} \end{array} \right.$	233	33 41'	50 14'	33 41'	45 00	25 14'	39 45'	0'6667	1'0000	1'2019
			332	45 00	64 45'	56 18'	56 18'	39 45'	"	1'5000	1'5000	2'1213
11	x	$\left\{ \begin{array}{l} \frac{1}{3}I \\ \frac{1}{2}I \\ \frac{2}{3}I \\ 23 \end{array} \right.$	123	26 34	36 42	18 26	33 41'	15 30	32 18'	0'3333	0'6667	0'7453
			132	18 26	57 41'	26 34	56 18'	"	53 18	0'5000	1'5000	1'5811
			231	33 41'	74 30	63 26	71 34	32 18'	"	2'0000	3'0000	3'6055

Bismit.

Rhombisch.

a = 0'8166	lg a = 991201	lg a ₀ = 970863	lg p ₀ = 029137	a ₀ = 0'5112	p ₀ = 1'9560
c = 1'5973	lg c = 020338	lg b ₀ = 979662	lg q ₀ = 020338	b ₀ = 0'6261	q ₀ = 1'5973

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	∞	110	50°46	90 00	90 00	90 00	50 46	39 14	1'2246	∞	∞
3	q	$0\frac{1}{2}$	012	0 00	38 36'	0 00	38 36'	0 00	38 36'	0	0'7986	0'7986
4	r	$0\frac{2}{3}$	023	"	46 48	"	46 48	"	46 48	"	1'0649	1'0649
5	s	01	011	"	57 57	"	57 57	"	57 57	"	1'5973	1'5973
6	t	02	021	"	72 37	"	72 37	"	72 37	"	3'1946	3'1946

Blei.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
			010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	f	$\left\{ \begin{array}{l} 0\frac{1}{4} \\ 04 \\ \infty 4 \end{array} \right.$	014	"	14 02	"	14 02	"	14 02	"	0'2500	0'2500
			041	"	75 58	"	75 58	"	75 58	"	4'0000	4'0000
			140	14 02	90 00	90 00	90 00	14 02	"	0'2500	∞	∞
3	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
4	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112	"	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
5	p	I	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
6	A	$\left\{ \begin{array}{l} \frac{1}{5}I \\ 5 \end{array} \right.$	155	11 18'	45 34	11 18'	"	8 03	44 26'	0'2000	"	1'0198
			551	45 00	81 57	78 41'	78 41'	44 26'	"	5'0000	5'0000	7'0710

Bleiglanz.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ρ
1	c	$\left\{ \begin{array}{l} 0 \\ 0\infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	a	$\left\{ \begin{array}{l} 0\frac{1}{10} \\ 0'10 \\ \infty 10 \end{array} \right.$	$\left\{ \begin{array}{l} 0'1'10 \\ 0'10'1 \\ 1'10'0 \end{array} \right.$	" " 5 42' 5 42'	5 42' 84 17' 90 00	" " 90 00	5 42' 84 17' 90 00	" " 5 42'	5 42' 84 17' "	" " 0'1000 0'1000	0'1000 10'000 ∞	0'1000 10'000 ∞
3	a	$\left\{ \begin{array}{l} 0\frac{1}{3} \\ 03 \\ \infty 3 \end{array} \right.$	$\left\{ \begin{array}{l} 013 \\ 031 \\ 130 \end{array} \right.$	0 00 " 71 34 18 26	18 26 71 34 90 00	0 00 " 90 00	18 26 71 34 90 00	0 00 " 18 26	18 26 71 34 "	0 " 0'3333 0'3333	0'3333 3'0000 ∞	0'3333 3'0000 ∞
4	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 011 \\ 110 \end{array} \right.$	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	45 00 "	0 1'0000	1'0000 ∞	1'0000 ∞
5	β	$\left\{ \begin{array}{l} \frac{1}{36} \\ 1'36 \end{array} \right.$	$\left\{ \begin{array}{l} 1'1'36 \\ 1'36'1 \end{array} \right.$	" 1 35'	2 15 88 24'	1 35' 45 00	1 35' 88 24'	1 35' "	1 35' 87 45	0'0267 1'0000	0'0267 36 000	0'0393 36'014
6	γ	$\left\{ \begin{array}{l} \frac{1}{15} \\ 1'15 \end{array} \right.$	$\left\{ \begin{array}{l} 1'1'15 \\ 1'15'1 \end{array} \right.$	45 00 3 49	5 23 86 11'	3 49 45 00	3 49 86 11	3 48' "	3 48' 84 37	0'0667 1'0000	0'0667 15'000	0'0943 15'033
7	ν	$\left\{ \begin{array}{l} \frac{1}{12} \\ 1'12 \end{array} \right.$	$\left\{ \begin{array}{l} 1'1'12 \\ 1'12'1 \end{array} \right.$	45 00 4 46	6 43' 85 15	4 45' 45 00	4 45' 85 14	4 45 "	4 45 83 17	0'0833 1.0000	0'0833 12'000	0'1179 12 041
8	μ	$\left\{ \begin{array}{l} \frac{1}{10} \\ 1'10 \end{array} \right.$	$\left\{ \begin{array}{l} 1'1'10 \\ 1'10'1 \end{array} \right.$	45 00 5 42'	8 03 84 19	5 42' 45 00	5 42' 84 17'	5 41 "	5 41 81 57	0'1000 1'0000	0'1000 10'000	0'1414 10'050
9	θ	$\left\{ \begin{array}{l} \frac{1}{9} \\ 19 \end{array} \right.$	$\left\{ \begin{array}{l} 119 \\ 191 \end{array} \right.$	45 00 6 20'	8 56 83 42	6 20' 45 00	6 20' 83 39'	6 18 "	6 18 81 04	0'1111 1'0000	0'1111 9'0000	0'1571 9'0552
10	κ	$\left\{ \begin{array}{l} \frac{2}{15} \\ 1\frac{1}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 2'2'15 \\ 2'15'2 \end{array} \right.$	45 00 7 35'	10 40' 82 28'	7 35' 45 00	7 35' 82 24'	7 31' "	7 31' 79 20'	0'1333 1'0000	0'1333 7'5000	0 1886 7'5662
11	r	$\left\{ \begin{array}{l} \frac{1}{6} \\ 16 \end{array} \right.$	$\left\{ \begin{array}{l} 116 \\ 161 \end{array} \right.$	45 00 9 27'	13 15' 80 40	9 27' 45 00	9 27' 80 32	9 20 "	9 20 76 44	0'1667 1'0000	0'1667 6 0000	0'2357 6'0827
12	l	$\left\{ \begin{array}{l} \frac{1}{5} \\ 15 \end{array} \right.$	$\left\{ \begin{array}{l} 115 \\ 151 \end{array} \right.$	45 00 11 18'	15 47' 78 54	11 18' 45 00	11 18' 78 41'	11 06 "	11 06 74 12'	0'2000 1'0000	0'2000 5'0000	0'2828 5'0989
13	k	$\left\{ \begin{array}{l} \frac{1}{4} \\ 14 \end{array} \right.$	$\left\{ \begin{array}{l} 114 \\ 141 \end{array} \right.$	45 00 14 02	19 28 76 22	14 02 45 00	14 02 75 58	13 38 "	13 38 70 32	0'2500 1'0000	0'2500 4'0000	0'3535 4'1231
14	m	$\left\{ \begin{array}{l} \frac{1}{3} \\ 13 \end{array} \right.$	$\left\{ \begin{array}{l} 113 \\ 131 \end{array} \right.$	45 00 18 26	25 14' 72 27	18 26 45 00	18 26 71 34	17 33 "	17 33 64 45'	0.3333 1'0000	0'3333 3'0000	0.4714 3'1623
15	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	$\left\{ \begin{array}{l} 112 \\ 121 \end{array} \right.$	45 00 26 34	35 16 65 54'	26 34 45 00	26 34 63 26	24 05' "	24 05' 54 44	0'5000 1'0000	0'5000 2'0000	0'7071 2'2360
16	n	$\left\{ \begin{array}{l} \frac{3}{2} \\ 1\frac{3}{2} \end{array} \right.$	$\left\{ \begin{array}{l} 223 \\ 232 \end{array} \right.$	45 00 33 41'	43 19 60 59	33 41' 45 00	33 41' 56 18'	29 01 "	29 01 46 41	0'6667 1'0000	0 6667 1,5000	0.9428 1'8028
17	t	$\left\{ \begin{array}{l} \frac{3}{4} \\ 1\frac{3}{4} \end{array} \right.$	$\left\{ \begin{array}{l} 334 \\ 343 \end{array} \right.$	45 00 36 52	46 41 59 02	36 52 45 00	36 52 53 08	30 58 "	30 58 43 19	0'7500 1 0000	0'7500 1'3333	1'0606 1'6667

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
18	p	1	111	45°00	54°44	45°00	45°00	35°16	35°16	1'0000	1'0000	1'4142
19	A	$\left\{ \begin{array}{l} \frac{1}{3}1 \\ 5 \end{array} \right.$	155	11 18'	45 33'	11 18'	"	8 03	44 26'	0'2000	"	1'0198
			551	45 00	81 57	78 41'	78 41'	44 26'	"	5'0000	5'0000	7'0710
20	φ	$\left\{ \begin{array}{l} \frac{1}{4}1 \\ 4 \end{array} \right.$	144	14 02	45 52	14 02	45 00	10 01'	44 08	0'2500	1'0000	1'0308
			441	45 00	79 58'	75 58	75 58	44 08	"	4'0000	4'0000	5'6567
21	v	$\left\{ \begin{array}{l} \frac{1}{3}1 \\ 3 \end{array} \right.$	133	18 26	46 30'	18 26	45 00	13 16	43 29'	0'3333	1'0000	1'0541
			331	45 00	76 44	71 34	71 34	43 29'	"	3'0000	3'0000	4'2426
22	u	$\left\{ \begin{array}{l} \frac{1}{2}1 \\ 2 \end{array} \right.$	122	26 34	48 11'	26 34	45 00	19 28	41 48'	0'5000	1'0000	1'1180
			221	45 00	70 31'	63 26	63 26	41 48'	"	2'0000	2'0000	2'8284
23	ψ	$\left\{ \begin{array}{l} \frac{4}{7}1 \\ \frac{7}{4} \end{array} \right.$	477	29 44'	49 02	29 44'	45 00	22 00	40 58	0'5714	1'0000	1'1517
			774	45 00	68 00	60 15'	60 15'	40 58	"	1'7500	1'7500	2'4748
24	χ	$\left\{ \begin{array}{l} \frac{4}{3}1 \\ \frac{3}{4} \end{array} \right.$	455	38 39'	52 01	38 39'	45 00	29 30	37 59	0'8000	1.0000	1'2807
			554	45 00	60 30	51 20'	51 20'	37 59	"	1'2500	1'2500	1'7677
25	Ω	$\left\{ \begin{array}{l} \frac{1}{3}\frac{1}{4} \\ \frac{1}{2}\frac{1}{4} \\ 28 \end{array} \right.$	128	26 34	15 37	7 07'	14 02	6 55	13 56	0'1250	0'2500	0'2795
			182	7 07'	76 04	26 34	75 58	"	74 23	0'5000	4'0000	4'0311
			281	14 02	83 05	63 26	82 52'	13 56	"	2'0000	8'0000	8'2462
26	x	$\left\{ \begin{array}{l} \frac{1}{3}\frac{2}{3} \\ \frac{1}{2}\frac{2}{3} \\ 23 \end{array} \right.$	123	26 34	36 42	18 26	33 41'	15 30	32 18'	0'3333	0'6667	0'7453
			132	18 26	57 41'	26 34	56 18'	"	53 18	0'5000	1'5000	1'5811
			231	33 41'	74 30	63 26	71 34	32 18'	"	2'0000	3'0000	3'6055

Bleioxyd.

Rhombisch.

a = 0.6706	lg a = 982646	lg a ₀ = 983684	lg p ₀ = 016316	a ₀ = 0.6860	p ₀ = 1.4560
c = 0.9764	lg c = 998963	lg b ₀ = 001037	lg q ₀ = 998963	b ₀ = 1.0242	q ₀ = 0.9764

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	∞0	100	90°00	90 00	90 00	"	90 00	"	∞	"	∞
3	α	0 $\frac{1}{2}$	012	0 00	26 01'	0 00	26 01'	0 00	26 01'	0	0'4882	0'4882
4	r	1	111	56 09	60 18	55 31	44 19	46 10'	28 56	1'4560	0'9764	1'7531
5	t	$\frac{2}{3}1$	233	44 50	54 00'	44 09	"	34 47	35 01	0'9706	"	1'3768
6	s	$\frac{4}{3}1$	455	50 01'	56 39'	49 21	"	39 48'	32 27'	1'1648	"	1'5199

Blödit.

Monoklin.

$a = 1.3494$	$\lg a = 0.13014$	$\lg a_c = 0.30374$	$\lg p_o = 9.69626$	$a_o = 2.0125$	$p_o = 0.4969$
$c = 0.6705$	$\lg c = 9.82640$	$\lg b_o = 0.17360$	$\lg q_o = 9.81888$	$b_o = 1.4914$	$q_o = 0.6590$
$\mu = \left. \begin{array}{l} \\ 180 - \beta \end{array} \right\} 79^\circ 22$	$\left. \begin{array}{l} \lg h = \\ \lg \sin \mu \end{array} \right\} 9.99248$	$\left. \begin{array}{l} \lg e = \\ \lg \cos \mu \end{array} \right\} 9.26605$	$\lg \frac{p_o}{q_o} = 9.87738$	$h = 0.9828$	$e = 0.1845$

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \rho$
1	c	0	001	90° 00	10° 38	10° 38	0° 00	10° 38	0° 00	0.1877	0	0.1877
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	λ	3∞	310	66 09	"	"	90 00	66 09	23 51	2.2620	∞	"
5	n	2∞	210	56 27	"	"	"	56 27	33 33	1.5080	"	"
6	l	$\frac{10}{3}\infty$	320	48 31	"	"	"	48 31	41 29	1.1310	"	"
7	m	$\frac{10}{3}\infty$	110	37 01	"	"	"	37 01	52 59	0.7540	"	"
8	τ	$\frac{5}{4}\infty$	450	31 06	"	"	"	31 06	58 54	0.6032	"	"
9	ν	∞2	120	20 39	"	"	"	20 39	69 20	0.3770	"	"
10	μ	∞3	130	14 06	"	"	"	14 06	75 53	0.2513	"	"
11	d	01	011	15 38	34 51	10 38	33 50	8 52	33 23	0.1877	0.6705	0.6963
12	e	02	021	7 58	53 33	"	53 17	6 24	52 48	"	1.3410	1.3541
13	r	-10	101	90 00	17 38	17 38	0 00	17 38	0 00	0.3178	0	0.3178
14	q	-20	201	"	39 28	39 28	"	39 28	"	0.8234	"	0.8234
15	p	+1	111	45 57	43 58	34 44	33 50	29 56	28 51	0.6933	0.6705	0.9645
16	t	-31	311	63 13	56 06	53 02	"	47 49	21 57	1.3290	"	1.4886
17	s	-21	211	50 50	46 43	39 28	"	34 22	27 22	0.8234	"	1.0619
18	u	-1	111	25 22	36 34	17 38	"	14 47	32 35	0.3178	"	0.7420
19	f	$-\frac{1}{2}1$	144	5 13	33 57	3 30	"	2 55	33 47	0.0613	"	0.6733
20	z	+13	131	19 01	64 49	34 44	63 34	17 09	58 50	0.6933	2.0115	2.1276
21	o	+12	121	27 20	56 28	"	53 17	22 30	47 46	"	1.3410	1.5096
22	v	$-1\frac{1}{2}$	212	43 28	24 48	17 38	18 32	16 48	17 43	0.3178	0.3352	0.4620
23	x	-12	121	13 20	54 02	"	53 17	10 45	51 57	"	1.3410	1.3782
24	y	-2	221	31 33	57 34	39 28	"	26 12	45 59	0.8234	"	1.5737
25	w	$-\frac{1}{2}$	112	10 59	18 51	3 43	18 32	3 32	18 30	0.0651	0.3352	0.3415

Boleit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	{ 0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
		{ 0 ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	e	{ 0 $\frac{1}{2}$	012	"	26 34	"	26 34	"	26 34	"	0'5000	0'5000
		{ 02	021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
		{ ∞ 2	120	26 34	90 00	90 00	90 00	26 34	"	0'5000	∞	∞
3	d	{ 01	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
		{ ∞	110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
4	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1'0000	1'4142

Boracit.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	{ 0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
		{ 0 ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	f	{ 0 $\frac{1}{2}$	014	"	14 02	"	14 02	"	14 02	"	0'2500	0'2500
		{ 04	041	"	75 58	"	75 58	"	75 58	"	4'0000	4'0000
		{ ∞ 4	140	14 02	90 00	90 00	90 00	14 02	"	0'2500	∞	∞
3	a	{ 0 $\frac{1}{3}$	013	0 00	18 26	0 00	18 26	0 00	18 26	0	0'3333	0'3333
		{ 03	031	"	71 34	"	71 34	"	71 34	"	3'0000	3'0000
		{ ∞ 3	130	18 26	90 00	90 00	90 00	18 26	"	0'3333	∞	∞
4	d	{ 01	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
		{ ∞	110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
5	qq.	{ $\pm \frac{1}{2}$	112	"	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
		{ ± 12	121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
6	pp.	± 1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
		{ $-\frac{1}{6}1$	1'16·16	3 34'	45 03'	3 34'	"	2 32	44 56'	0'0625	"	1'0019
7	II.	{ 16'16	16'16·1	45 00	87 28	86 25'	86 25'	44 56'	"	16'000	16'000	22'627
		{ $-\frac{1}{8}1$	188	7 07'	45 13'	7 07'	45 00	5 03	44 46'	0'1250	1'0000	1'0078
8	C.	{ $-\frac{1}{8}1$	881	45 00	84 57	82 52'	82 52'	44 46'	"	8'0000	8'0000	11'314
		{ $+\frac{1}{4}1$	144	14 02	45 52	14 02	45 00	10 01'	44 08	0'2500	1'0000	1'0308
9	φ	{ $+\frac{1}{4}$	441	45 00	79 58'	75 58'	75 58'	44 08'	"	4'0000	4'0000	5'6567
		{ $+\frac{2}{3}1$	255	21 48	47 07'	21 48	45 00	15 47'	42 52'	0'4000	1'0000	1'0771
10	Σ	{ $+\frac{2}{3}1$	552	45 00	74 12'	68 12	68 12	42 52'	"	2'5000	2'5000	3'5355
		{ $+\frac{1}{3}3$	135	18 26	32 18'	11 18'	30 58	9 44	30 28	0'2000	0'6000	0'6325
11	z	{ $+\frac{1}{3}3$	153	11 18'	59 32	18 26	59 02	"	57 41'	0'3333	1'6667	1'6996
		{ $+\frac{1}{35}$	351	30 58	80 16	71 34	78 41'	30 28	"	3'0000	5'0000	5'8310

Borax.

Monoklin.

a = 1.0995	lg a = 004120	lga _o = 998966	lg p _o = 001034	a _o = 0.9765	p _o = 1.0241
c = 1.126	lg c = 005154	lgb _o = 994846	lg q _o = 003309	b _o = 0.8881	q _o = 1.0792
$\mu = \left. \begin{matrix} 180 \\ 180 - \beta \end{matrix} \right\} 73^\circ 25'$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 998155$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 945547$	$\lg \frac{p_o}{q_o} = 997725$	h = 0.9584	e = 0.2854

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	o	001	90° 00'	16° 35'	16° 35'	0° 00'	16° 35'	0° 00'	0.2978	o	0.2978
2	b	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	∞	∞	∞
3	a	∞o	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	m	∞	110	43 30	"	"	90 00	43 30	46 30	0.9489	∞	"
5	n	$\frac{2}{3}\infty$	750	53 02	"	"	"	53 02	36 58	1.3285	"	"
6	s	02	021	7 32	66 14	16 35	66 03	6 53	65 08	0.2978	2.2520	2.2716
7	e	-10	101	90 00	37 37	37 37	0 00	37 37	0 00	0.7707	o	0.7707
8	o	$-\frac{1}{2}$	112	22 47	31 24	13 18	29 23	11 38	28 43	0.2365	0.5630	0.6106
9	z	-1	111	34 23	45 54	37 37	48 23	27 06	41 43	0.7707	1.1260	1.3645

Botryogen.

Monoklin.

a = 0.6522	lg a = 981438	lga _o = 003964	lg p _o = 996036	a _o = 1.0955	p _o = 0.9128
c = 0.5953	lg c = 977474	lgb _o = 022526	lg q _o = 972241	b _o = 1.6798	q _o = 0.5277
$\mu = \left. \begin{matrix} 180 \\ 180 - \beta \end{matrix} \right\} 62^\circ 26'$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 994767$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 966537$	$\lg \frac{p_o}{q_o} = 023795$	h = 0.8865	e = 0.4628

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Pri-men) (x : y)	y'	d' = tg ϱ
1	c	o	001	90° 00'	27° 34'	27° 34'	0° 00'	27° 34'	0° 00'	0.5220	o	0.5220
2	b	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	m	∞	110	59 58	"	90 00	"	59 58	30 02	1.7296	"	"
4	f	∞2	120	40 51	"	"	"	40 51	49 09	0.8648	"	"
5	v	$0\frac{2}{3}$	023	52 45	33 15	27 34	21 39	25 53	19 23	0.5220	0.3969	0.6558
6	x	-10	101	90 00	26 55	26 55	0 00	26 55	0 00	0.5076	o	0.5076
7	n	-1	111	40 27	38 02	"	30 46	23 34	27 57	"	0.5953	0.7824

Bournonit.

Rhombisch.

a = 0.9380	lga = 997220	lga ₀ = 001946	lgp ₀ = 998054	a ₀ = 1.0458	p ₀ = 0.9562
c = 0.8969	lgc = 995274	lgb ₀ = 004726	lgq ₀ = 995274	b ₀ = 1.1150	q ₀ = 0.8969

N ^o .	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d = tge
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞∞	010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	b	∞o	100	90°00	"	90°00	o°00	90°00	o°00	∞	o	"
4	η	3∞	310	72 38	"	"	90°00	72 38	17 22	3'1083	∞	"
5	e	2∞	210	64 52	"	"	"	64 52	25 07	2'0837	"	"
6	l	2∞	320	57 59	"	"	"	57 59	32 01	1'5991	"	"
7	R	$\frac{7}{10}$ ∞	750	56 10	"	"	"	56 10	33 49	1'4925	"	"
8	Π	$\frac{1}{2}$ ∞	1180	55 16	"	"	"	55 16	34 43	1'4427	"	"
9	θ	$\frac{3}{4}$ ∞	430	54 52	"	"	"	54 52	35 07	1'4215	"	"
10	M	$\frac{9}{10}$ ∞	970	53 53	"	"	"	53 53	36 07	1'3707	"	"
11	k	$\frac{4}{10}$ ∞	540	53 07	"	"	"	53 07	36 53	1'3327	"	"
12	m	∞	110	46 50	"	"	"	46 50	43 10	1'0661	"	"
13	Ψ	∞	560	41 41	"	"	"	41 41	48 19	0'8884	"	"
14	w	$\frac{2}{3}$ ∞	340	38 38	"	"	"	38 38	51 21	0'7996	"	"
15	a	$\frac{2}{3}$ ∞	230	35 24	"	"	"	35 24	54 36	0'7107	"	"
16	f	∞	120	28 03	"	"	"	28 03	61 56	0'5330	"	"
17	i	$\frac{2}{3}$ ∞	130	19 34	"	"	"	19 34	70 26	0'3553	"	"
18	Ξ	$\frac{1}{3}$ ∞	310	17 44	"	"	"	17 44	72 16	0'3198	"	"
19	Φ	∞	140	14 55	"	"	"	14 55	75 04	0'2665	"	"
20	L	∞	150	12 02	"	"	"	12 02	77 58	0'2132	"	"
21	d	∞	160	10 04	"	"	"	10 04	79 55	0'1777	"	"
22	κ	$\frac{1}{3}$ ∞	013	o°00	16 38	o°00	16 38	o°00	16 38	o	0'2989	0'2989
23	γ	$\frac{2}{3}$ ∞	023	"	30 52	"	30 52	"	30 52	"	0'5979	0'5979
24	n	01	011	"	41 53	"	41 53	"	41 53	"	0'8969	0'8969
25	λ	02	021	"	60 51	"	60 51	"	60 51	"	1'7938	1'7938
26	Σ	03	031	"	69 37	"	69 37	"	69 37	"	2'6907	2'6907
27	j	$\frac{1}{5}$ ∞	105	90°00	10 49	10 49	o°00	10 49	o°00	0'1912	o	0'1912
28	t	$\frac{1}{4}$ ∞	104	"	13 26	13 26	"	13 26	"	0'2390	"	0'2390
29	ε	$\frac{1}{2}$ ∞	103	"	17 40	17 40	"	17 40	"	0'3187	"	0'3187
30	F	$\frac{2}{5}$ ∞	205	"	20 56	20 56	"	20 56	"	0'3824	"	0'3824
31	x	$\frac{1}{2}$ ∞	102	"	25 33	25 33	"	25 33	"	0'4781	"	0'4781
32	h	$\frac{3}{5}$ ∞	203	"	32 31	32 31	"	32 31	"	0'6374	"	0'6374
33	o	10	101	"	43 43	43 43	"	43 43	"	0'9562	"	0'9562

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tge
34	C	$\frac{5}{3}0$	503	90°00	57°53'	57°53'	0°00	57°53'	0°00	1'5936	0	1'5936
35	z	20	201	"	62 23'	62 23'	"	62 23'	"	1'9123	"	1'9123
36	δ	30	301	"	70 47'	70 47'	"	70 47'	"	2'8685	"	2'8685
37	ζ	40	401	"	75 20'	75 20'	"	75 20'	"	3'8238	"	3'8238
38	v	21	211	64 52'	64 40'	62 23'	41 53'	54 55'	22 34'	1'9124	0'8969	2'1122
39	D	$\frac{3}{2}1$	322	57 59'	59 24'	55 07'	"	46 52'	27 09'	1'4342'	"	1'6916
40	y	1	111	46 50'	52 40'	43 43'	"	35 26'	32 57'	0'9562	"	1'3110
41	Y	$\frac{3}{5}1$	355	32 36'	46 47'	29 50'	"	23 07'	37 53'	0'5737	"	1'0647
42	π	$\frac{1}{2}1$	122	28 03'	45 28'	25 33'	"	19 35'	38 58'	0'4781	"	1'0163
43	λ	$\frac{1}{4}1$	144	14 55'	42 52'	13 26'	"	10 05'	41 06'	0'2394	"	0'9282
44	N	$1\frac{1}{11}$	11'1'11	85 07'	43 49'	43 43'	4 39'	43 37'	3 22'	0'9562	0'0815'	0'9596
45	s	$1\frac{1}{2}$	212	64 52'	46 34'	"	24 09'	41 06'	17 57'	"	0'4484'	1'0561
46	V	$1\frac{5}{3}$	454	40 27'	55 50'	"	48 16'	32 28'	39 01'	"	1'1211	1'4735
47	Q	$1\frac{3}{2}$	232	35 24'	58 47'	"	53 22'	29 42'	44 12'	"	1'3453	1'6505
48	ρ	12	121	28 03'	63 48'	"	60 51'	24 58'	52 21'	"	1'7938	2'0327
49	g	2	221	46 50'	69 07'	62 23'	"	42 57'	39 44'	1'9124	"	2'6219
50	Γ	$\frac{8}{3}$	885	"	64 30'	56 50'	55 08'	41 10'	38 08'	1'5299	1'4350'	2'0975
51	μ	$\frac{3}{2}$	332	"	63 03'	55 07'	53 22'	40 33'	37 34'	1'4342'	1'3453	1'9664
52	θ	$1\frac{7}{12}$	17'17'12	"	61 42'	53 34'	51 48'	39 57'	37 02'	1'3546	1'2706	1'8572
53	Z	$\frac{4}{3}$	443	"	60 13'	51 53'	50 06'	39 16'	36 26'	1'2749	1'1958	1'7480
54	K	$\frac{5}{4}$	554	"	58 36'	50 05'	48 16'	38 30'	35 44'	1'1952	1'1211	1'6387
55	χ	$\frac{3}{4}$	334	"	44 31'	35 39'	33 55'	30 45'	28 40'	0'7171'	0'6726'	0'9832
56	p	$\frac{2}{5}$	223	"	41 09'	32 31'	30 52'	28 41'	26 45'	0'6374'	0'5979'	0'8740
57	E	$\frac{5}{8}$	558	"	39 20'	30 52'	29 16'	27 32'	25 41'	0'5976	0'5605'	0'8194
58	S	$\frac{5}{9}$	559	"	36 04'	27 58'	26 29'	25 26'	23 45'	0'5312	0'5940'	0'7283
59	P	$1\frac{10}{9}$	10'10'19	"	34 36'	26 43'	25 16'	24 28'	22 52'	0'5032'	0'4720'	0'6900
60	u	$\frac{1}{2}$	112	"	33 15'	25 33'	24 09'	23 34'	22 01'	0'4781	0'4484'	0'6555
61	φ	$\frac{1}{3}$	113	"	23 36'	17 40'	16 38'	16 59'	15 54'	0'3187'	0'2989'	0'4370
62	Ω	$\frac{1}{4}$	114	"	18 09'	13 26'	12 38'	13 08'	12 18'	0'2394	0'2242	0'3277
63	A	$1\frac{1}{2}$	7'2'14	75 00	26 20'	25 33'	7 18'	25 22'	6 35'	0'4781	0'1281	0'4950
64	B	$1\frac{1}{6}$	316	72 38'	26 36'	"	8 30'	25 18'	7 41'	"	0'1495	0'5009
65	ξ	$1\frac{1}{4}$	214	64 52'	27 50'	"	12 38'	25 00'	11 26'	"	0'2242	0'5281
66	Δ	$1\frac{1}{2}$	7'4'14	61 48'	28 28'	"	14 22'	24 51'	13 01'	"	0'2562'	0'5424
67	G	$1\frac{1}{3}$	326	57 50'	29 25'	"	16 38'	24 36'	15 05'	"	0'2989'	0'5639
68	ω	$\frac{2}{3}$	346	38 38'	37 26'	"	30 52'	22 18'	28 20'	"	0'5979'	0'7656
69	J	$\frac{1}{3}$	123	28 03'	34 07'	17 40'	"	15 18'	29 40'	0'3187'	"	0'6776
70	O	$\frac{2}{3}$	213	64 52'	35 09'	32 31'	16 38'	31 25'	14 09'	0'6374'	0'2989'	0'7041
71	T	$\frac{3}{2}$	321	57 59'	73 32'	70 47'	60 51'	54 24'	30 33'	2'8685	1'7938	3'3832
72	U	$\frac{3}{4}$	314	72 38'	36 55'	35 39'	12 38'	34 59'	10 19'	0'7171'	0'2242	0'7514
73	W	$\frac{4}{3}$	431	54 52'	77 56'	75 21'	69 37'	53 07'	34 14'	3'8247	2'6907	4'6764
74	H	$\frac{7}{4}$	275	71 49'	76 03'	"	51 28'	67 14'	17 37'	"	1'2556	4'0256
75	X	$\frac{7}{3}$	743	61 48'	68 26'	65 51'	50 06'	55 03'	26 04'	2'2311	1'1958	2'5314

Braunit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1.4032 \quad \lg c = 0.14712 \quad \lg a_0 = 9.85288 \quad a_0 = 0.7126$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	m	o ∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
4	e	01	011	0 00	54 31'	0 00	54 31'	0 00	54 31'	o	1'4032	1'4032
5	s	02	021	"	70 23'	"	70 23'	"	70 23'	"	2'8064	2'8064
6	o	$\frac{3}{8}$	338	45 00	36 39'	27 45	27 45	24 58	24 58	0'5226	0'5226	0'7442
7	n	$\frac{1}{2}$	112	"	44 46'	35 03	35 03	29 52'	29 52'	0'7016	0'7016	0'9922
8	l	2	221	"	75 51'	70 23'	70 23'	43 17'	43 17'	2'8064	2'8064	3'9688
9	σ	$\frac{1}{5}$ 1	155	11 18'	55 03	15 40'	54 31'	9 15	53 29'	0'2806	1'4032	1'4309
10	y	$\frac{1}{3}$ 1	133	18 26	55 56'	25 04	"	15 11	51 48'	0'4677	"	1'4791
11	x	13	131	"	77 18	54 31'	76 38	17 58	67 44'	1'4032	4'2096	4'4373
12	i	$\frac{1}{4}$ $\frac{3}{4}$	134	"	47 58	19 20	46 27'	13 35	44 48	0'3508	1'0524	1.1093
13	?t	$\frac{3}{8}$ $\frac{7}{8}$	378	23 12	53 11	27 45	50 50'	18 23	47 22'	0'5262	1'2278	1'3358

Breithauptit.

Hexagonal.

$$c = 0.7471 \quad \lg c = 9.87338 \quad \lg a_0 = 0.36518 \quad \lg p_0 = 9.69729 \quad a_0 = 2.3184 \quad p_0 = 0.4981 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	a	∞ 0	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	i	10	1011	"	26 28'	"	26 28'	"	26 28'	"	0'4981	0'4981
4	w	30	3031	"	56 12'	"	56 12'	"	56 12'	"	1'4942	1'4942
5	v	40	4041	"	63 21	"	63 21	"	63 21	"	1'9923	1'9923
6	s	14'0	14'014'1	"	81 50'	"	81 50'	"	81 50'	"	6'9730	6'9730

Brewsterit.

Monoklin.

a = 0.4049	lg a = 960735	lg a ₀ = 968266	lg p ₀ = 031734	a ₀ = 0.4816	p ₀ = 2.0765
c = 0.8408	lg c = 992469	lg b ₀ = 007531	lg q ₀ = 992380	b ₀ = 1.1893	q ₀ = 0.8391
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 86^\circ 20'$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 999911$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 880585$	$\lg \frac{p_0}{q_0} = 039354$	h = 0.9979	e = 0.0639

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	0	001	90° 00	3° 40	3° 40	0° 00	3° 40	0° 00	0.0641	0	0.0641
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	68 00	"	"	90 00	68 00	22 00	2.4747'	∞	"
5	t	∞2	120	51 03'	"	"	"	51 03'	38 56'	1.2373'	"	"
6	e	0 $\frac{1}{2}$	0.1.12	42 27	5 25'	3 40	4 00'	3 39'	4 00	0.0641	0.0700'	0.0949

Bromsilber.

Regulär.

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	$\left\{ \begin{matrix} - \\ 0^\circ 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$
2	d	$\left\{ \begin{matrix} 01 \\ \sim \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 1.0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \sim \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$
3	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1.0000	1.4142

Brongniardit.

Regulär.

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ 1.0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$
2	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1.0000	1.4142

Brookit.

Rhombisch. (?)

$a = 0.8416$	$\lg a = 992511$	$\lg a_0 = 994995$	$\lg p_0 = 005005$	$a_0 = 0.8911$	$p_0 = 1.1222$
$c = 0.9444$	$\lg c = 997516$	$\lg b_0 = 002484$	$\lg q_0 = 997516$	$b_0 = 1.0589$	$q_0 = 0.9444$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
3	a	∞0	100	90 00	”	90 00	0 00	90 00	0 00	∞	0	”
4	M	9∞	910	84 39'	”	”	90 00	84 39'	5 20'	10.694	”	”
5	N	7∞	710	83 08'	”	”	”	83 08'	6 51'	8.3174	”	”
6	?p	1 $\frac{1}{2}$ ∞	11.2.0	81 18	”	”	”	81 18	8 42	6.5350	∞	”
7	k	4∞	410	78 07	”	”	”	78 07	11 53	4.7528	”	”
8	?e	4 $\frac{1}{2}$ ∞	940	69 29'	”	”	”	69 29'	20 30'	2.6734	”	”
9	l	2∞	210	67 10'	”	”	”	67 10'	22 49'	2.3764	”	”
10	a	∞ $\frac{1}{2}$ ∞	320	60 42'	”	”	”	60 42'	29 17'	1.7823	”	”
11	m	∞∞	110	49 55	”	”	”	49 55	40 05	1.1882	”	”
12	φ	∞2	120	30 43	”	”	”	30 43	59 17	0.5941	”	”
13	ψ	01 $\frac{1}{2}$	012	0 00	25 16'	0 00	25 16'	0 00	25 16'	0	0.4722	0.4722
14	T	08 $\frac{2}{3}$	089	”	40 01	”	40 01	”	40 01	”	0.8395	0.8395
15	δ	01	011	”	43 21'	”	43 21'	”	43 21'	”	0.9444	0.9444
16	d	04 $\frac{1}{3}$	043	”	51 32'	”	51 32'	”	51 32'	”	1.2592	1.2592
17	t	02	021	”	62 06	”	62 06	”	62 06	”	1.8888	1.8888
18	y	$\frac{1}{4}$ 0	104	90 00	15 40	15 40	0 00	15 40	0 00	0.2805	0	0.2805
19	x	$\frac{1}{2}$ 0	102	”	29 18	29 18	”	29 18	”	0.5610	”	0.5610
20	ω	$\frac{1}{3}$ 0	305	”	33 57	33 57	”	33 57	”	0.6733	”	0.6733
21	χ	$\frac{1}{4}$ $\frac{1}{2}$	124	30 43	28 46'	15 40	25 16'	14 14	24 27	0.2805	0.4722	0.5493
22	e	$\frac{1}{2}$ 1	122	”	47 41'	29 17'	43 21'	22 11'	39 28'	0.5611	0.9444	1.0985
23	n	$\frac{1}{2}$ 1	121	”	65 31'	48 17'	62 06	27 42'	51 29'	1.1222	1.8888	2.1970
24	p	$\frac{1}{2}$ $\frac{2}{3}$	9.4.18	69 29'	30 55'	29 17'	11 51	28 46'	10 22'	0.5611	0.2098	0.5990
25	v	$\frac{1}{2}$ $\frac{1}{3}$	326	60 42	32 45'	”	17 28'	28 09	15 21	”	0.3148	0.6434
26	P	$\frac{1}{2}$ $\frac{5}{4}$	7.5.14	58 59'	33 12'	”	18 38'	28 00	16 23'	”	0.3373	0.6546
27	z	$\frac{1}{2}$ $\frac{1}{4}$	112	49 55	36 15	”	25 16'	26 54	22 23	”	0.4722	0.7333
28	q	$\frac{1}{2}$ $\frac{3}{4}$	234	38 23	42 06	”	35 18'	24 36	31 42'	”	0.7083	0.9036
29	\varkappa	$\frac{1}{2}$ $\frac{3}{2}$	132	21 36'	56 43'	”	54 47	17 56	51 01	”	1.4166	1.5237
30	λ	$\frac{1}{2}$ 2	142	16 32'	63 05'	”	62 06	14 42'	58 44'	”	1.8888	1.9704
31	o	1	111	49 55	55 43	48 17'	43 21'	39 12'	32 08'	1.1222	0.9444	1.4667
32	s	$\frac{3}{2}$ 1	322	60 42	62 36'	59 17'	”	50 44'	25 45	1.6832	”	1.9300
33	g	1 $\frac{1}{2}$	949	69 29'	50 09	48 17'	22 46	45 58'	15 36	1.1222	0.4197	1.1981
34	q	14 $\frac{1}{3}$	343	41 42'	59 20	”	51 32'	34 54'	39 57	”	1.2592	1.6866
35	w	1 $\frac{1}{2}$	272	18 45	74 01	”	73 10	18 00	65 33	”	3.3055	3.4907
36	h	15	151	13 22	78 21'	”	78 02'	13 05'	72 20'	”	4.7220	4.8535

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
37	i	$\frac{3}{2}$	342	41° 42'	68° 26'	59° 17'	62° 06'	38° 13'	43° 58'	1'6832	1'8888	2'5300
38	?u	$\frac{7}{2}$	784	46 07	69 51	63 01	"	42 35	40 36	1'9638	"	2'7247
39	r	2	221	49 55	71 10'	65 59	"	46 24	37 33	2'2443	"	2'9333
40	π	$\frac{1}{4}\frac{1}{3}$	3'4'12	41 42'	22 52	15 40	17 28'	14 59	16 51'	0.2805'	0'3148	0'4217
41	ε	$\frac{1}{4}\frac{3}{4}$	134	21 36'	37 18	"	35 18'	12 53'	34 17'	"	0'7083	0'7618
42	f	$\frac{3}{2}\frac{5}{5}$	3'10'2	19 37	78 43	59 17	78 02'	19 13'	67 29	1'6832	4'7220	5'0130
43	Ω	$\frac{1}{12}\frac{1}{6}$	1'22'12	3 05'	60 01'	5 20'	59 59'	2 40'	59 53	0'0743	1'7314	1'7340
44	r	$\frac{1}{3}\frac{4}{9}$	349	41 42'	29 21	20 30'	22 46	19 02	21 27'	0'3740'	0'4197'	0'5622
45	Σ	$\frac{1}{3}\frac{5}{6}$	256	25 25	41 04	"	38 12	16 23	36 23'	"	0'7870'	0'8714
46	D	$\frac{2}{7}\frac{1}{14}$	4'11'14	18 34'	38 03	14 00	36 34'	11 19'	35 45	0'2493'	0'7420'	0'7828
47	ϑ	$\frac{5}{18}\frac{7}{9}$	5'14'18	22 59'	38 35	17 19	36 18	14 06	35 02'	0'3117	0'7345'	0'7979
48	Δ	$\frac{4}{13}\frac{10}{13}$	4'10'13	25 25	38 48'	19 03	36 00	15 36'	34 28'	0'3453	0'7264'	0'8043

Brucit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1.5208 \quad \lg c = 0.18207 \quad \lg a_0 = 0.05649 \quad \lg p_0 = 0.00598 \quad a_0 = 1.1389 \quad p_0 = 1.0139 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	'z	$-\frac{1}{3}$	$\bar{1}\bar{1}23$	30° 00	30 20'	16 19	26 53	14 38	25 56'	0'2927	0'5069	0'5854
3	e	$-\frac{1}{2}$	$\bar{1}\bar{1}22$	"	41 17	23 42	37 15	19 15'	34 51	0'4390	0'7604	0'8780
4	r	$+\frac{1}{3}$	$1\bar{1}\bar{2}1$	"	60 20	41 17	56 40'	25 45	48 48'	0'8780	1'5208	1'7561
5	h	$-\frac{2}{3}$	$\bar{7}\bar{7}14'5$	"	67 52	50 52'	64 50'	27 35'	53 20'	1'2292	2 1291	2'4585
6	p	$+\frac{1}{2}$	2241	"	74 06'	60 20'	71 48	28 44'	56 24	1'7561	3'0416	3'5122
7	t	-4	4481	"	81 54	74 06'	80 40	29 40	59 01'	3'5122	6'0831	7'0243

Brushit.

Monoklin.

$$\begin{array}{l}
 a = 0.6221 \quad \lg a = 979386 \quad \lg a_0 = 0.26047 \quad \lg p_0 = 973953 \quad a_0 = 1.8217 \quad p_0 = 0.5489' \\
 c = 0.3415 \quad \lg c = 953339 \quad \lg b_0 = 0.46661 \quad \lg q_0 = 953156 \quad b_0 = 2.9283 \quad q_0 = 0.3400' \\
 \left. \begin{array}{l} \mu = \\ 180 - \beta \end{array} \right\} 84^\circ 45 \quad \left. \begin{array}{l} \lg h = \\ \lg \sin \mu \end{array} \right\} 999817 \quad \left. \begin{array}{l} \lg e = \\ \lg \cos \mu \end{array} \right\} 896143 \quad \left. \begin{array}{l} \lg \frac{p_0}{q_0} = \\ \lg \frac{p_0}{q_0} \end{array} \right\} 0.20797 \quad h = 0.9958 \quad e = 0.0915
 \end{array}$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	b	o ∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	o	∞	∞
2	p	3 ∞	310	78 20	"	90 00	"	78 20	11 40	4'8429'	o	"
3	n	01	011	15 03'	19 28'	5 15	18 51'	4 58	18 47	0'0919	0'3415	0'3536
4	c	-30	301	90 00	57 22'	57 22'	0 00	57 22'	0 00	1'5619	o	1'5619

Bunsenit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ 0\infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1'0000	1'0000	1'4142

Buntkupfererz.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ 0\infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	d	$\begin{cases} 01 \\ \infty \end{cases}$	$\begin{matrix} 011 \\ 110 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 90 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ " \end{matrix}$	$\begin{matrix} " \\ 1'0000 \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$
3	q	$\begin{cases} \frac{1}{2} \\ 12 \end{cases}$	$\begin{matrix} 112 \\ 121 \end{matrix}$	$\begin{matrix} " \\ 26 34 \end{matrix}$	$\begin{matrix} 35 16 \\ 65 54 \end{matrix}$	$\begin{matrix} 26 34 \\ 45 00 \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \end{matrix}$	$\begin{matrix} 24 05' \\ " \end{matrix}$	$\begin{matrix} 24 05' \\ 54 44 \end{matrix}$	$\begin{matrix} 0'5000 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'5000 \\ 2'0000 \end{matrix}$	$\begin{matrix} 0'7071 \\ 2'2360 \end{matrix}$
4	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142

Calcit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 0.8543 \quad \lg c = 993161 \quad \lg a_0 = 030695 \quad \lg p_0 = 975552 \quad a_0 = 2.0275 \quad p_0 = 0.5695 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	∞	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	ψ	$\frac{4}{3}\infty$	4370	25 17	"	"	"	25 17	64 43	0'4724	"	"
5	ζ	$\frac{5}{2}\infty$	5270	16 06	"	"	"	16 06	73 54	0'2887	"	"
6	ϑ	4 ∞	4150	10 53'	"	"	"	10 53'	79 06'	0'1924	"	"
7	π	10	1011	0 00	29 40	0 00	29 40	0 00	29 40	0	0'5696	0'5696
8	κ	$\frac{7}{4}\infty$	7074	"	44 54'	"	44 54'	"	44 54'	"	0'9967	0'9967
9	λ	20	2021	"	48 43	"	48 43	"	48 43	"	1'1391	1'1391

No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
10	a	40	4041	0°00	66°18	0°00	66°18	0°00	66°18	0	2'2782	2'2782
11	ω	$\frac{16}{3}0$	16'0'16'3	"	71 46'	"	71 46'	"	71 46'	"	3'0375	3'0375
12	ξ	60	6061	"	73 41'	"	73 41'	"	73 41'	"	3'4173	3'4173
13	β	70	7071	"	75 55	"	75 55	"	75 55	"	3'9867	3'9867
14	γ	80	8081	"	77 37	"	77 37	"	77 37	"	4'5563	4'5563
15	δ	90	9091	"	78 57'	"	78 57'	"	78 57'	"	5'1258	5'1258
16	ε	12'0	12'0'12'1	"	81 40	"	81 40'	"	81 40'	"	6'8344	6'8344
17	α'	$-\frac{1}{5}$	1125	30 00	11 09'	5 38	9 42'	5 33	9 39'	0'0986	0'1709	0'1972
18	d'	$+\frac{1}{4}$	1124	"	13 51	7 02	12 03'	6 52'	11 58'	0'1233	0'2136	0'2466
19	β'	$-\frac{7}{20}$	7'7'14'20	"	19 03	9 47'	16 39	9 23'	16 25	0'1726	0'2990	0'3453
20	e' γ'	$\pm\frac{2}{5}$	2245	"	21 32	11 09'	18 52	10 34'	18 32	0'1973	0'3417	0'3946
21	f δ'	$\pm\frac{1}{2}$	1122	"	26 15	13 51	23 08	12 46'	22 31'	0'2466	0'4271	0'4932
22	g'	$+\frac{4}{7}$	4'4'8'7	"	29 24'	15 44'	26 01	14 12'	25 10	0'2818	0'4882	0'5637
23	ε'	$-\frac{3}{5}$	3365	"	30 37	16 29	27 08'	14 45	26 10'	0'2960	0'5126	0'5919
24	h' ζ'	$\pm\frac{4}{3}$	2243	"	33 20	18 12	29 40	15 57	28 25	0'3288	0'5695	0'6576
25	η'	$-\frac{4}{5}$	4485	"	38 17	21 32	34 21	18 02'	32 27	0'3946	0'6834	0'7892
26	θ'	$-\frac{7}{8}$	7'7'14'8	"	40 48	23 20'	36 46'	19 04	34 27'	0'4316	0'7475	0'8632
27	p' κ'	± 1	1121	"	44 36'	26 15	40 30'	20 33'	37 27'	0'4932	0'8543	0'9865
28	λ'	$-\frac{8}{7}$	8'8'16'7	"	48 25'	29 24'	44 19	21 58	40 23	0'5637	0'9764	1'1274
29	μ'	$-\frac{6}{5}$	6'6'12'5	"	49 48'	30 37	45 42'	22 27'	41 25	0'5919	1'0252	1'1838
30	ν'	$-\frac{2}{4}$	5'5'10'4	"	50 57'	31 39'	46 53	22 51	42 16	0'6165	1'0679	1'2331
31	ξ'	$-\frac{4}{3}$	4483	"	52 45	33 20	48 43	23 27	43 35	0'6576	1'1391	1'3153
32	π'	$-\frac{7}{5}$	7'7'14'5	"	54 05'	34 37'	50 06	23 53'	44 32'	0'6905	1'1960	1'3811
33	ϱ'	$-\frac{3}{2}$	3362	"	55 57	36 30	52 02	24 28'	45 51	0'7399	1'2814	1'4797
34	σ'	$-\frac{11}{7}$	11'11'22'7	"	57 10'	37 46'	53 19	24 51	46 52	0'7751	1'3425	1'5501
35	τ'	$-\frac{13}{8}$	13'13'26'8	"	58 02'	38 42'	54 14	25 06	47 17'	0'8015	1'3882	1'6030
36	A'	$-\frac{9}{5}$	9'9'18'5	"	60 36'	41 36	56 58	25 49'	48 59'	0'8878	1'5377	1'7756
37	φ'	-2	2241	"	63 07'	44 36'	59 39'	26 29	50 34'	0'9865	1'7086	1'9729
38	χ'	$-\frac{9}{4}$	9'9'18'4	"	65 45	47 48'	62 31	27 07	52 09	1'1098	1'9222	2'2195
39	k' ψ'	$\pm\frac{5}{2}$	5'5'10'2	"	67 55'	50 57'	64 54'	27 36	53 22'	1'2331	2'1357	2'4662
40	ω'	$-\frac{11}{4}$	11'11'22'4	"	69 46	53 36	66 56'	27 59	54 21	1'3564	2'3493	2'7127
41	l' Γ'	$\pm\frac{3}{7}$	3361	"	71 20	55 57	68 41	28 16'	55 08	1'4797	2'5629	2'9594
42	Δ'	$-\frac{7}{2}$	7'7'14'2	"	73 51	59 55	71 30'	28 42	56 17	1'7263	2'9901	3'4526
43	m' Θ'	± 4	4481	"	75 47	63 07'	73 41'	28 59'	57 05	1'9729	3'4172	3'9458
44	Λ'	$-\frac{9}{2}$	9'9'18'2	"	77 18	65 45	75 25	29 11'	57 39'	2'2195	3'8443	4'4390
45	n' Ξ'	± 5	5'5'10'1	"	78 32'	67 55'	76 49'	29 20'	58 04'	2'4662	4'2715	4'9323
46	o'	$+\frac{11}{2}$	11'11'22'2	"	79 33'	69 46	77 59	29 27	58 24	2'7127	4'6986	5'4255
47	y'	+6	6'6'12'1	"	80 24'	71 20	78 57'	29 32'	58 38'	2'9594	5'1258	5'9188
48	q'	+7	7'7'14'1	"	81 45'	73 51	80 30'	29 39'	58 59'	3'4526	5'9801	6'9053
49	Π'	-8	8'8'16'1	"	82 46'	75 47	81 40'	29 44'	59 13'	3'9458	6'8344	7'8917
50	B'	-9	9'9'18'1	"	83 34'	77 18'	82 35'	29 47'	59 23	4'4390	7'6887	8'8780
51	r'	+10'10	10'10'20'1	"	84 12'	78 32'	83 19'	29 50	59 30	4'9323	8'5430	9'8646

No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ρ
52	Z'	-11'11	11'11'22'1	30°00	84°44	79°33'	83°55'	29°51'	59°35	5'4255	9'3972	10'851
53	s'	+13'13	13'13'26'1	"	85 32'	81 08	84 51'	29 54	59 42	6'4120	11'106	12'824
54	Φ	-14'14	14'14'28'1	"	85 51'	81 45'	85 13	29 55	59 44'	6'9053	11'960	13'811
55	t'	+16'16	16'16'32'1	"	86 22'	82 46'	85 49	29 56	59 48	7'8917	13'669	15'783
56	Y'	-17'17	17'17'34'1	"	86 35	83 12	86 03'	29 56'	59 49'	8'3850	14'523	16'770
57	u'	+19'19	19'19'38'1	"	86 56'	83 54'	86 23'	29 57	59 51'	9'3712	15'862	18'743
58	Z'	+22'22	22'22'44'1	"	87 21'	84 44	86 57	29 58	59 53'	10'851	18'784	21'702
59	z'	+28'28	28'28'56'1	"	87 55'	85 51'	87 36'	29 58'	59 56	13'811	23'921	27'621
60	z:	$-\frac{4}{8}\frac{1}{5}$	4'155	10 53'	27 34	5 38	27 08'	5 01	27 01'	0'0986	0'5126	0'5220
61	u:	$-\frac{11}{13}\frac{2}{13}$	11'2'13'13	8 13	27 58'	4 20'	27 44	3 50'	27 40	0'0759	0'5257	0'5312
62	y:	$-\frac{7}{8}\frac{1}{8}$	7'188	6 35	28 15'	3 31'	28 06	3 07	28 03	0'0616	0'5339	0'5375
63	x:	+1'10	10'1'11'10	4 43	30 58	2 49'	30 53	2 25'	30 51	0'0493	0'5980	0'6001
64	v:	+1'15	5'165	8 57	32 23	5 38	32 04	4 46'	31 56'	0'0986	0'6265	0'6342
65	t:	+1'12	4'154	10 53'	33 07'	7 02	32 39	5 55'	32 27	0'1233	0'6407	0'6525
66	g:	+1'13	3'143	13 54	34 23'	9 20	33 36	7 48	33 15	0'1644	0'6645	0'6845
67	w:	+1'25	5'275	16 06	35 25'	11 09'	34 21	9 15	33 50'	0'1973	0'6834	0'7114
68	f:	+1'11	11'5'16'11	17 47	36 17	12 38	34 57	10 25	34 18	0'2242	0'6990	0'7340
69	e:	+1'12	2'132	19 06'	37 00	13 51	35 27	11 21'	34 39	0'2466	0'7119	0'7534
70	q:	+1'47	7'4'11'7	21 03	38 07	15 44'	36 13	12 48'	35 10'	0'2818	0'7323	0'7846
71	a:	+1'38	5'385	21 47	38 34	16 29	36 31	13 22'	35 22'	0'2960	0'7404	0'7973
72	c:	+1'38	8'5'13'8	22 24'	38 57'	17 08	36 47	13 52	35 32'	0'3083	0'7475	0'8086
73	b:	+1'25	3'253	23 25	39 36'	18 12	37 12'	14 40'	35 48'	0'3288	0'7594	0'8275
74	a:	+1'10	10'7'17'10	24 11	40 07'	19 03	37 33'	15 18'	36 00'	0'3453	0'7689	0'8428
75	β :	+1'11	11'8'19'11	24 47'	40 33	19 44	37 50	15 49	36 10	0'3587	0'7766	0'8555
76	d:	+1'45	5'495	26 19'	41 39'	21 32	38 34	17 09	36 34	0'3946	0'7973	0'8897
77	A:	+1'10	13'10'23'10	25 41'	48 41	26 15	45 42'	19 00	42 36	0'4932	1'0252	1'1377
78	B:	+2'1	7'5'12'5	24 30	49 56'	"	47 15'	18 30'	44 08'	"	1.0821	1'1892
79	C:	+3'1	3'252	23 25	51 08'	"	48 43	18 01'	45 36'	"	1.1391	1'2413
80	γ :	+2'10	25'16'41'16	22 46'	51 52	"	49 35'	17 44	46 29'	"	1'1746	1'2740
81	D:	+2'1	8'5'13'5	22 24'	52 18	"	50 06	17 33'	47 00'	"	1'1960	1'2938
82	E:	+2'1	7'4'11'4	21 03	53 56	"	52 02	16 53	48 58'	"	1'2814	1'3731
83	F: g:	± 2 1	2'131	19 06'	56 26	"	54 55	15 49'	51 56	"	1'4238	1'5069
84	δ :	+2'14	29'14'43'14	18 37	57 05'	"	55 40'	15 32'	52 43	"	1'4645	1'5454
85	I:	+1'17	17'8'25'8	18 15'	57 34'	"	56 13'	15 20'	53 17	"	1'4950	1'5743
86	G: A	± 1 1	11'5'16'5	17 47	58 14	"	56 58	15 03'	54 03'	"	1'5377	1'6149
87	H: Q	± 2 1	5'2'7'2	16 06	60 39	"	59 39'	13 59'	56 52'	"	1'7086	1'7784
88	J: G:	± 3 1	3'141	13 54	64 02	"	63 21'	12 28	60 46'	"	1'9933	2'0535
89	K: Θ	± 4 1	4'151	10 53'	69 02	"	68 41	10 10	66 29'	"	2'5629	2'6099
90	L:	+3'5	35'8'43'8	10 04'	70 28'	"	70 11'	9 29'	68 07	"	2'7764	2'8199
91	ε :	+1'10	19'4'23'4	9 22	71 44'	"	71 30'	8 53'	69 33	"	2'9901	3'0305
92	M:	+5'1	5'161	8 57	72 30	"	72 17'	8 32	70 24	"	3'1324	3'1710
93	N:	+1'1	11'2'13'2	8 13	73 51	"	73 41'	7 53	71 55'	"	3'4172	3'4526

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x:y)	y	d = tge
94	O:	+61	6171	7° 35'	75° 00'	26° 15'	74° 53'	7° 18'	73° 14'	0'4932	3'7019	3'7347
95	P: Ψ	+71	7181	6 35	76 54'	"	76 49'	6 25	75 22'	"	4'2715	4'2999
96	Q:	+ $\frac{15}{2}$ 1	15'2'17'2	6 10'	77 41'	"	77 37'	6 02	76 15'	"	4'5563	4'5829
97	R:	+81	8191	5 49	78 23	"	78 19'	5 42	77 02	"	4'8410	4'8661
98	ζ :	+ $\frac{17}{2}$ 1	17'2'19'2	5 30	79 00'	"	78 57'	5 23'	77 44'	"	5'1258	5'1495
99	S:	+91	9.1.10'1	5 12'	79 34	"	79 31'	5 07'	78 21'	"	5'4105	5'4330
100	η :	+ $\frac{10}{2}$ 1	19'2.21'2	4 57	80 04'	"	80 02'	4 52'	78 55'	"	5'6954	5'7166
101	T:	+10'1	10'1'11'1	4 43	80 32'	"	80 30'	4 39	79 26'	"	5'9801	6'0004
102	U:	+13'1	13'1'14'1	3 40	82 36'	"	82 35'	3 38'	81 45'	"	7'6887	7'7044
103	V:	+16'1	16'1'17'1	3 00	83 56	"	83 55'	2 59	83 14	"	9'3972	9'4103
104	W:	+ $\frac{35}{2}$ 1	35'2'37'2	2 45'	84 26	"	84 25'	2 44'	83 48	"	10'252	10'263
105	X:	+19'1	19'1'20'1	2 32'	84 51'	"	84 51'	2 32	84 16	"	11'1106	11'117
106	a:	+ $\frac{8}{2}$ $\frac{2}{3}$	8'2'10'5	10 53'	46 14	11 09'	45 42'	7 50'	45 10	0'1973	1'0252	1'0440
107	b:	+ $\frac{7}{4}$ $\frac{1}{4}$	7184	6 35	47 04	7 02	46 53	4 49	46 40	1'2331	1'0679	1'0750
108	c:	-2 $\frac{1}{5}$	10'1'11'5	4 43	50 12	5 38	50 06	3 37	49 58	0'0986	1'1960	1'2001
109	d:	-2 $\frac{2}{3}$	14'2'16'7	6 35	50 51'	8 01'	50 40	5 06	50 23'	0'1409	1'2204	1'2257
110	e:	-2 $\frac{1}{2}$	4152	10 53'	52 32	13 51	52 02	8 37'	51 12'	0'2466	1'2847	1'3050
111	f:	-2 $\frac{2}{3}$	6283	13 54	53 51	18 12	53 02'	11 11	51 37	0'3288	1'3289	1'3690
112	g:	-2 $\frac{4}{5}$	10'4'14'5	16 06	54 54	21 32	53 48'	13 07	51 48'	0'3946	1'3669	1'4227
113	h:	-2 $\frac{8}{7}$	14'8'22'7	21 03	57 29	29 24'	55 40'	17 38	51 54'	0'5637	1'4645	1'5692
114	i:	-2 $\frac{5}{4}$	8'5'13'4	22 24'	58 16	31 39'	56 13'	18 55	51 50'	0'6165	1'4950	1'6172
115	f:	-2 $\frac{7}{5}$	10'7'17'5	24 11	59 19'	34 37'	56 58	20 38	51 41'	0'6905	1'5377	1'6857
116	m:	-2 $\frac{5}{3}$	6'5'11'3	26 59'	61 05'	39 25'	58 13	23 25	51 16	0'8202	1'6137	1'8110
117	n:	- $\frac{7}{2}$	7'4'11'2	21 03	69 59'	44 36'	68 41	19 43'	61 16'	0'9865	2'5629	2'7462
118	o:	-42	4261	19 06'	71 38'	"	70 39	18 06	63 44'	"	2'8477	3'0137
119	p:	-52	5271	16 06	74 18	"	73 41'	15 29	67 39	"	3'4172	3'5568
120	q: T	+82	8'2'10'1	10 53'	79 09'	"	78 57'	10 42	74 40'	"	5'1258	5'2199
121	r:	-11'2	11'2'13'1	8 13	81 45'	"	81 40'	8 07'	78 23	"	6'8344	6'9051
122	u:	- $\frac{5}{2}$ $\frac{3}{2}$	5382	21 47	63 21'	36 30	61 37	19 22'	56 06	0'7398	1'8510	1'9933
123	v:	- $\frac{13}{5}$ $\frac{7}{5}$	13'7'20'5	20 10'	63 27'	34 37'	61 59	17 58	57 07	0'6905	1'8794	2'0023
124	w:	- $\frac{8}{3}$ $\frac{4}{3}$	8'4'12'3	19 06'	63 32'	33 20	62 13'	17 02'	57 46	0'6576	1'8985	2'0091
125	x:	- $\frac{11}{4}$ $\frac{5}{4}$	11'5'16'4	17 47	63 39	31 39'	62 31	15 53'	58 34	0'6165	1'9222	2'0186
126	y:	- $\frac{2}{9}$ $\frac{8}{7}$	20'8'28'7	16 06	63 48	29 24'	62 53	14 24'	59 33	0'5637	1'9527	2'0325
127	z: M	+ $\frac{16}{5}$ $\frac{4}{5}$	16'4'20'5	10 53'	64 24'	21 32	64 00	9 49	62 20	0'3946	2'0503	2'0880
128	z:	- $\frac{7}{2}$ 1	7182	6 35	65 03'	13 51	64 54'	5 58	64 15	0'2466	2'1357	2'1500
129	z:	+4 $\frac{4}{7}$	28.4'32'7	"	67 51'	15 44'	67 43'	6 07	66 56'	0'2818	2'4408	2'4571
130	z:	+ $\frac{19}{4}$ 1	19'16'35'4	27 10	76 58	63 07'	75 25	26 25	60 05	1.9729	3'8443	4'3210
131	z:	+54	5491	26 20	77 20	"	75 55	25 38'	60 58'	"	3'9867	4'4483
132	z:	+ $\frac{29}{5}$ 4	26'20'46'5	25 41'	77 36'	"	76 17'	25 03	61 39'	"	4'1006	4'5505
133	z:	+ $\frac{16}{3}$ 4	16'12.28'3	25 17	77 47'	"	76 32	24 40'	62 05'	"	4'1766	4'6192
134	z:	+ $\frac{11}{2}$ 4	11'8'19'2	24 47'	78 00	"	76 49'	24 13	62 37'	"	4'2715	4'7050
135	z:	+ $\frac{49}{7}$ 4	40'28'68'7	24 11	78 16	"	77 10'	23 39	63 16'	"	4'3935	4'8161

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $tg \varrho$
136	Ξ:	+64	6'4'10'1	23° 25'	78° 37'	63° 07'	77° 37'	22° 55'	64° 06'	1'9729	4'5563	4'9651
137	ϑ:	+74	7'4'11'1	21 03	79 41	"	78 57	20 41	66 39	"	5'1258	5'4924
138	ϑ:	+10'4	10'4'14'1	16 06	82 00	"	81 40	15 56	72 04	"	6'8344	7'1135
139	ϑ:	+16'4	16'4'20'1	10 53	84 31	"	84 25	10 50	77 49	"	10'252	10'440
140	ϑ:	-5 $\frac{2}{3}$	20'5'25'4	"	72 57	31 39	72 40	10 24	69 51	0'6164	3'2036	3'2624
141	U:	+4 $\frac{10}{7}$	40'16'56'7	16 06	76 10	48 25	75 38	15 37	68 54	1'1274	3'9054	4'0649
142	ϑ:	+3 $\frac{2}{3}$	32'8'40'5	10 53	76 32	38 17	76 17	10 35	72 44	0'7892	4'1006	4'1759
143	ϑ:	-8 $\frac{5}{4}$	32'5'37'4	7 09	78 35	31 39	78 29	7 00	76 33	0'6165	4'9122	4'9507
144	ϑ:	-84	8'4'12'1	19 06	80 35	63 07	80 02	18 50	68 46	1'9729	5'6954	6'0274
145	ϑ:	-85	8'5'13'1	22 24	81 13	67 55	80 30	22 08	66 00	2'4662	5'9801	6'4686
146	ϑ:	-11'8	11'8'19'1	24 47	83 56	75 46	83 19	24 38	64 31	3'9458	8'5430	9'4102
147	Q:	-14 $\frac{2}{3}$	14'7'21'3	19 06	74 07	49 01	73 15	18 21	65 21	1'1509	3'3223	3'5160
148	a:	-1 $\frac{10}{8}$	19'4'23'8	9 22	56 34	13 51	56 13	7 48	55 26	0'2466	1'4960	1'5152
149	b:	-1 $\frac{1}{2}$	11'2'13'4	8 13	59 55	"	59 39	7 06	58 55	"	1'7086	1'7263
150	c:	-5 $\frac{1}{2}$	10'1'11'2	4 43	71 34	"	71 30	4 28	71 00	"	2'9901	3'0002
151	d:	-13 $\frac{1}{2}$	13'1'14'2	3 40	75 27	"	75 25	3 33	75 00	"	3'8443	3'8522
152	e:	-2 $\frac{1}{2}$	29'2'31'4	3 18	76 50	"	76 49	3 13	76 26	"	4'2715	4'2786
153	g:	-1 $\frac{1}{2}$	19'1'20'2	2 32	79 48	"	79 47	2 30	79 29	"	5'5529	5'5582
154	S	+2 $\frac{5}{4}$	25'10'35'4	16 06	77 19	50 57	76 49	15 42	69 36	1'2331	4'2715	4'4460
155	U	+62	6281	13 54	76 19	44 36	75 55	13 30	70 35	0'9865	3'9867	4'1071
156	W	-1 $\frac{3}{5}$	13'4'17'5	13 00	60 18	21 32	59 39	11 16	57 49	0'3946	1'7086	1'7536
157	Z	+8 $\frac{4}{5}$	8'4'12'5	19 06	50 19	"	48 43	14 35	46 39	"	1'1391	1'2055
158	N	+20 $\frac{8}{11}$	20'8'28'11	16 06	52 17	19 44	51 10	12 40	49 28	0'3587	1'2426	1'2934
159	X	-23 $\frac{8}{7}$	23'8'31'7	14 23	66 12	29 24	65 31	13 09	62 24	0'5637	2'1967	2'2679
160	Y	-5 $\frac{20}{13}$	56'20'76'13	14 42	71 30	37 11	70 55	13 56	66 32	0'7588	2'8915	2'9894
161	R	-1 $\frac{6}{7}$	16'8'24'7	19 06	59 51	29 24	58 25	16 26	54 48	0'5637	1'6272	1'7221
162	V	-1 $\frac{2}{5}$	12'6'18'5	"	61 03	30 37	59 39	16 38	55 47	0'5919	1'7086	1'8082
163	Γ	-2 $\frac{0}{3}$	20'2'22'3	4 44	75 58	18 12	75 55	4 34	75 12	0'3288	3'9867	4'0003
164	Ξ	-17 $\frac{31}{20}$	85'31'116'20	14 57	71 21	37 24	70 44	14 09	66 15	0'7645	2'8619	2'9622

Caledonit.

Rhombisch.

a = 0'9180	lga = 996284	lga ₀ = 981464	lgp ₀ = 018536	a ₀ = 0'6526	p ₀ = 1'5324
c = 1'4067	lgc = 014820	lgb ₀ = 985180	lgq ₀ = 014820	b ₀ = 0'7109	q ₀ = 1'4067

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d = tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	47 27	"	"	"	47 27	42 33	1'0893	"	"
4	k	0 $\frac{1}{6}$	016	0 00	13 11'	"	13 11'	0 00	13 11'	0	0'2344'	0'2344'
5	i	0 $\frac{1}{3}$	015	"	15 43	"	15 43	"	15 43	"	0'2813'	0'2813'
6	ψ	0 $\frac{1}{2}$	013	"	25 07'	"	25 07'	"	25 07'	"	0'4689	0'4689
7	f	0 $\frac{1}{2}$	012	"	35 07	"	35 07	"	35 07	"	0'7033'	0'7033'
8	\varkappa	0 $\frac{2}{3}$	023	"	43 09'	"	43 09'	"	43 09'	"	0'9378	0'9378
9	e	01	011	"	54 35'	"	54 35'	"	54 35'	"	1'4067	1'4067
10	δ	02	021	"	70 26	"	70 26	"	70 26	"	2'8134	2'8134
11	d	10	101	90 00	56 52'	56 52'	0 00	56 52'	0 00	1'5324	0	1'5324
12	x	20	201	"	71 55'	71 55'	"	71 55'	"	3'0647	"	3'0647
13	τ	$\frac{1}{3}$	113	47 27	34 44	27 03'	25 07'	24 49	22 40	0'5108	0'4689	0'6934
14	s	$\frac{2}{3}$	223	"	54 12	45 36'	43 09'	36 41'	33 16	1'0215	0'9378	1'3867
15	r	1	111	"	64 19'	56 52'	54 35'	41 36'	37 33	1'5323	1'4067	2'0801
16	v	$\frac{7}{4}$	774	"	74 38'	69 33	67 53'	45 16	40 42	2'6816	2'4617	3'6402
17	t	$\frac{2}{2}$	221	"	76 29	71 55'	70 26	45 45	41 06'	3'0647	2'8134	4'1603
18	l	$\frac{1}{2}$ 1	122	28 34'	58 01'	37 27'	54 35'	23 56'	48 09	0'7662	1'4067	1'6018

Cancrinit.

Hexagonal. Holoedrisch.

c = 0'7637	lgc = 988292	lga ₀ = 035564	lgp ₀ = 970683	a ₀ = 2'2680	p ₀ = 0'5091 (G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d = tg ϱ
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	p	10	1011	0 00	26 59	0 00	26 59	0 00	26 59	0	0'5092	0'5092

Cappelenit.

Hexagonal. Holoedrisch.

$$c = 2'2349 \quad \lg c = 034926 \quad \lg a_o = 988930 \quad \lg p_o = 017317 \quad a_o = 0'7750 \quad p_o = 1'4900 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	m	∞o	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	p	$\frac{1}{3}$ o	1013	"	26 25	"	26 25	"	26 25	"	0'4967	0'4967
4	o	10	1011	"	56 08	"	56 08	"	56 08	"	1'4900	1'4900

Caracolit.

Rhombisch.

$$a = 0'5843 \quad \lg a = 976664 \quad \lg a_o = 014205 \quad \lg p_o = 985795 \quad a_o = 1'3869 \quad p_o = 0'7210$$

$$c = 0'4213 \quad \lg c = 962459 \quad \lg b_o = 037541 \quad \lg q_o = 962459 \quad b_o = 2'3736 \quad q_o = 0'4213$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	o	1	111	59°42'	39°52'	35°47'	22°51'	33°36'	18°52'	0'7210	0'4213	0'8351

Carnallit.

Rhombisch.

$$a = 0'5952 \quad \lg a = 977466 \quad \lg a_o = 963208 \quad \lg p_o = 036792 \quad a_o = 0'4286 \quad p_o = 2'3330$$

$$c = 1'3886 \quad \lg c = 014258 \quad \lg b_o = 985742 \quad \lg q_o = 014258 \quad b_o = 0'7201 \quad q_o = 1'3886$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	o∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	59 14'	"	90 00	"	59 14'	30 45'	1'6801	"	"
4	d	$0\frac{2}{3}$	023	o 00	42 47'	o 00	42 47'	o 00	42 47'	o	0'9257	0'9257
5	e	$0\frac{1}{3}$	011	"	54 14'	"	54 14'	"	54 14'	"	1'3886	1'3886
6	f	02	021	"	70 12	"	70 12	"	70 12	"	2'7772	2'7772
7	i	10	101	90 00	66 48	66 48	o 00	66 48	o 00	2'3330	o	2'3330
8	s	$\frac{1}{3}$	113	59 14'	42 08'	37 52'	24 50'	35 12'	20 04'	0'7777	0'4736	0'9050
9	o	$\frac{1}{2}$	112	"	53 37'	49 23'	34 46'	43 46'	24 19	1'1140	0'6943	1'3575
10	k	1	111	"	69 47'	66 48	54 14'	53 44'	28 41	2'3330	1'3886	2'7150

Carrolit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	p	1	111	45°00	54°44	45°00	45°00	35°16	35°16	1'0000	1'0000	1'4142

Cerit.

Rhombisch.

a = 0°9988	lga = 999948	lga ₀ = 008955	lgp ₀ = 991045	a ₀ = 1'2290	p ₀ = 0°8137
c = 0°8127	lgc = 990993	lgb ₀ = 009007	lgq ₀ = 990993	b ₀ = 1'2305	q ₀ = 0°8127

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	0	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	p	∞	110	45 02	"	"	90 00	45 02	44 58	1'0012	∞	"
5	q	∞3	130	18 27	"	"	"	18 27	71 32	0'3337	"	"
6	n	01	011	0 00	39 06	0 00	39 06	0 00	39 06	0	0°8127	0°8127
7	m	10	101	90 00	39 08	39 08	0 00	39 08	0 00	0°8137	0	0°8137
8	t	30	301	"	67 43	67 43	"	67 43	"	2'4410	"	2'4410
9	r	32	321	56 20	7 10	"	58 24	51 59	31 38	"	1 6254	2'9327
10	s	$\frac{1}{4} \frac{3}{4}$	134	18 27	32 43	11 29	31 22	9 51	30 51	0°2033	0 6095	0°6426
11	o	$\frac{5}{3} \frac{2}{3}$	523	68 13	55 36	53 36	28 27	50 01	17 49	1'3561	0°5418	1'4603

Cerussit.

Rhombisch.

a = 0°6100	lga = 978533	lga ₀ = 992619	lgp ₀ = 007381	a ₀ = 0°8437	p ₀ = 1'1853
c = 0°7230	lgc = 985914	lgb ₀ = 014086	lgq ₀ = 985914	b ₀ = 1'3831	q ₀ = 0°7230

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	f	$\frac{5}{3} \frac{2}{3}$	530	69 54	"	"	90 00	69 54	20 06	2'7322	∞	"
5	m	∞	110	58 37	"	"	"	58 37	31 23	1'6393	"	"
6	V	$\frac{5}{3}$	350	44 31	"	"	"	44 31	45 28	0°9836	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
7	χ	$\infty 2$	120	39° 20'	90° 00'	90° 00'	90° 00'	39° 20'	50° 39'	0'8197	∞	∞
8	r	$\infty 3$	130	28 39	"	"	"	28 39	61 21	0'5464	"	"
9	I'	$\infty 8$	180	11 35	"	"	"	11 35	78 25	0'2049	"	"
10	c	$0 \frac{1}{6}$	016	0 00	6 52	0 00	6 52	0 00	6 52	0° 00	0'1205	0'1205
11	γ	$0 \frac{1}{3}$	013	"	13 33	"	13 33	"	13 33	"	0'2410	0'2410
12	x	$0 \frac{1}{2}$	012	"	19 52'	"	19 52'	"	19 52'	"	0'3615	0'3615
13	q	$0 \frac{2}{3}$	023	"	25 44	"	25 44	"	25 44	"	0'4820	0'4820
14	k	01	011	"	35 52	"	35 52	"	35 52	"	0'7230	0'7230
15	e	$0 \frac{5}{7}$	087	"	39 34	"	39 34	"	39 34	"	0'8263	0'8263
16	f	$0 \frac{7}{6}$	076	"	40 09	"	40 09	"	40 09	"	0'8435	0'8435
17	S	$0 \frac{3}{2}$	032	"	47 19	"	47 19	"	47 19	"	1'0845	1'0845
18	i	02	021	"	55 20	"	55 20	"	55 20	"	1'4460	1'4460
19	R	$0 \frac{5}{2}$	052	"	61 03	"	61 03	"	61 03	"	1'8075	1'8075
20	v	03	031	"	65 15	"	65 15	"	65 15	"	2'1690	2'1690
21	z	04	041	"	70 55'	"	70 55'	"	70 55'	"	2'8920	2'8920
22	n	05	051	"	74 32	"	74 32	"	74 32	"	3'6150	3'6150
23	t	06	061	"	77 01	"	77 01	"	77 01	"	4'3380	4'3380
24	u	07	071	"	78 49'	"	78 49'	"	78 49'	"	5'0610	5'0610
25	ζ	08	081	"	80 11'	"	80 11'	"	81 11'	"	5'7840	5'7840
26	n	09	091	"	81 16	"	81 16	"	81 16	"	6'5070	6'5070
27	g	0'10	0'10'1	"	82 07'	"	82 07'	"	82 07'	"	7'2300	7'2300
28	h	0'14	0'14'1	"	84 21'	"	84 21'	"	84 21'	"	10'122	10'122
29	a	$\frac{1}{10}$	105	90 00	13 20	13 20	0 00	13 20	0 00	0'2370'	0	0'2370'
30	E	$\frac{1}{40}$	104	"	16 30'	16 30'	"	16 30'	"	0'2963	"	0'2963
31	d	$\frac{1}{30}$	103	"	21 33'	21 33'	"	21 33'	"	0'3951	"	0'3951
32	y	$\frac{1}{20}$	102	"	30 39	30 39	"	30 39	"	0'5926	"	0'5926
33	e	10	101	"	49 50'	49 50'	"	49 50'	"	1'1852	"	1'1852
34	π	$\frac{3}{20}$	302	"	60 38'	60 38'	"	60 38'	"	1'7775	"	1'7775
35	l	20	201	"	67 07'	67 07'	"	67 07'	"	2'3705	"	2'3705
36	H	16	161	15 17	77 28	49 50'	77 01	14 54'	70 19'	1'1858'	4'3380	4'4970
37	φ	13	131	28 39	67 58'	"	65 15	26 23'	54 26	"	2'1690	2'4717
38	s	12	121	39 20'	61 51'	"	55 20	33 59	43 00	"	1'4460	1'8697
39	p	1	111	58 37	54 14	"	35 52	43 51	25 00	"	0'7230	1'3883
40	u	$1 \frac{2}{3}$	323	67 52	51 59'	"	25 44	46 52'	17 16	"	0'4820	1'2795
41	θ	$1 \frac{1}{3}$	313	78 30'	50 25	"	13 33	49 03	8 50	"	0'2410	1'2095
42	η	14'14	14'14'1	58 37	87 03'	86 33	84 21'	58 29'	31 20	16'594	10'122	19'437
43	ε	3	331	"	76 30	74 17'	65 15	56 06'	30 25'	3'5557'	2'1690	4'1650
44	τ	2	221	"	70 11'	67 08	55 20	53 26'	29 20'	2'3705	1'4460	2'7767
45	o	$\frac{1}{2}$	112	"	34 46	30 39	19 52'	29 08	17 16'	0'6064'	0'3615	0'6942
46	g	$\frac{1}{3}$	113	"	24 50	21 33'	13 33	21 00'	12 38	0'3951	0'2410	0'4628
47	h	$\frac{1}{4}$	114	"	19 08'	16 30'	10 15	16 15'	9 50	0'2963	0'1807'	0'3471
48	β	$\frac{1}{3}$	133	28 39	39 29	21 33'	35 52	17 45	33 55	0'3951	0'7230	0'8239
49	λ	$\frac{3}{7}$	377	35 05'	41 28	26 55'	"	22 12'	32 48'	0'5079'	"	0'8836
50	a	$\frac{1}{2}$	122	39 20'	43 04'	30 39	"	25 39	31 53	0'6064'	"	0'9348
51	ε	$\frac{3}{2}$	322	67 52	62 28'	60 38'	"	55 14	19 31	1'7779	"	1'9193

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x : y)	y	d =tg ϱ
52	w	21	211	73° 02'	68° 01'	67° 08'	35° 52'	62° 30'	15° 42'	2:3705	0'7230	2'4783
53	A	31	311	78 30'	74 35'	74 17'	"	70 52'	11 04'	3'5557'	"	3'6285
54	μ	$\frac{3}{4} \frac{1}{2}$	324	67 52'	43 49'	41 38'	19 52'	39 53'	15 07'	0'8889'	0'3615	0'9596
55	ϱ	$\frac{3}{2} \frac{2}{2}$	342	50 52'	66 25'	60 38'	55 20'	45 19'	35 20'	1'7779	1'4460	2'2916
56	ξ	$\frac{3}{2} \frac{1}{2} \frac{1}{2}$	394	28 39'	61 39'	41 38'	58 25'	24 58'	50 31'	0'8889'	1'6267	1'8538
57	ψ	$\frac{1}{4} \frac{3}{4}$	134	"	31 43'	16 30'	28 28'	14 36'	27 28'	0'2963	0'5422'	0'6179
58	δ	$\frac{5}{2} \frac{3}{2}$	562	53 48'	74 46'	71 21'	65 15'	51 08'	34 44'	2'9631	2'1690	3'6722
59	ω	$\frac{1}{4} \frac{3}{4}$	154	18 09'	43 34'	16 30'	42 06'	12 24'	40 45'	0'2963	0'9037'	0'9511
60	κ	35	351	44 31'	78 50'	74 17'	74 32'	43 28'	44 23'	3'5557	3'6150	5'0706
61	η	$\frac{3}{2} \frac{5}{2}$	352	"	68 28'	60 38'	61 03'	40 43'	41 32'	1'7779	1'8075	2'5353
62	σ	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	173	13 11'	60 00'	21 33'	59 20'	11 33'	57 29'	0'3951	1'6870	1'7326
63	N	11'13	11'13'1	54 12'	86 26'	85 36'	83 55'	54 03'	35 42'	13'038	9'3990	16'072
64	?K	$\frac{3}{4} \frac{5}{4}$	354	44 31'	51 44'	41 38'	42 06'	33 24'	34 02'	0'8889'	0'9037'	1'2676

Chabasit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1'0860 \quad \lg c = 003583 \quad \lg a_0 = 020273 \quad \lg p_0 = 985974 \quad a_0 = 1'5949 \quad p_0 = 0'7240 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	$\infty 0$	1010	0° 00'	90 00'	"	90 00'	"	90 00'	"	∞	∞
3	t	10	1011	"	35 54'	"	35 54'	"	35 54'	"	0'7240	0'7240
4	u	$\frac{3}{2} 0$	3032	"	47 21'	"	47 21'	"	47 21'	"	1'0860	1'0860
5	v	20	2021	"	55 22'	"	55 22'	"	55 22'	"	1'4480	1'4480
6	w	40	4041	"	65 16'	"	65 16'	"	65 16'	"	2'1720	2'1720
7	x	60	6061	"	77 02'	"	77 02'	"	77 02'	"	4'3440	4'3440
8	e	$-\frac{1}{2}$	1122	30 00'	32 05'	17 24'	28 30'	15 24'	27 23'	0'3135	0'5430	0'6270
9	df	$\pm \frac{2}{3}$	2243	"	39 54'	22 41'	35 54'	18 42'	33 44'	0'4180	0'7240	0'8360
10	k	$+\frac{3}{4}$	3364	"	43 14'	25 11'	39 10'	20 02'	36 23'	0'4703	0'8145	0'9405
11	r	+1	1121	"	51 25'	32 05'	47 21'	23 00'	42 37'	0'6270	1'0860	1'2540
12	g	$-\frac{3}{2}$	3362	"	62 00'	43 14'	58 27'	26 12'	49 52'	0'9405	1.6290	1'8810
13	s	-2	2241	"	68 15'	51 26'	65 16'	27 40'	53 33'	1'2540	2'1720	2'5080
14	h	$-\frac{1}{4}$	9'9 18'4	"	70 29'	54 40'	67 44'	28 07'	54 43'	1'4107	2'4435	2'8215
15	o	$+\frac{1}{4}$	4154	10 53'	39 39'	8 54'	39 09'	6 56'	38 49'	0'1567	0'8145	0.8298
16	β	$+\frac{1}{3} \frac{1}{3}$	13'10'23'13	25 41'	48 03'	25 45'	45 04'	18 48'	42 05'	0'4823	1'0025	1.1125
17	i	$+\frac{1}{4} \frac{1}{4}$	14'11'25'14	26 02'	48 18'	26 13'	45 14'	19 08'	42 08'	0'4926	1'0084	1'1223

Chalcomenit.

Monoklin.

$a = 0.7222$	$\lg a = 985866$	$\lg a_0 = 986566$	$\lg p_0 = 013434$	$a_0 = 0.7339$	$p_0 = 1.3625$
$c = 0.9840$	$\lg c = 999300$	$\lg b_0 = 999305$	$\lg q_0 = 999295$	$b_0 = 0.9841$	$q_0 = 0.9839$
$\left. \begin{matrix} \mu = \\ 180 - \beta \end{matrix} \right\} 89^\circ 09$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 999995$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 817128$	$\lg \frac{p_0}{q_0} = 014139$	$h = 0.9999$	$e = 0.0148$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	a	0	001	90° 00	0° 51	0° 51	0° 00	0° 51	0° 00	0.0148	0	0.0148
2	c	$\infty 0$	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	m	∞	110	54 10	"	"	90 00	54 10	35 50	1.3848	∞	"
4	f	+20	201	90 00	69 57	69 57	0 00	69 57	0 00	2.7401	0	2.7401
5	g	$-\frac{1}{4} 0$	104	90 00	18 03	18 03	"	18 03	"	0.3258	"	0.3258
6	δ	$+1\frac{1}{2}$	212	70 20	55 38	54 01	26 12	51 01	16 07	1.3774	0.4920	1.4626
7	ε	$+\frac{1}{2}\frac{3}{2}$	132	25 15	58 30	34 50	55 53	21 20	50 27	0.6961	1.4760	1.6319
8	β	$+\frac{1}{2} 3$	162	13 16	71 45	"	71 17	12 35	67 34	"	2.9520	3.0330

Chalcomorphit.

Hexagonal. Holoedrisch.

$c = 3.3067$	$\lg c = 051939$	$\lg a_0 = 971917$	$\lg p_0 = 034330$	$a_0 = 0.5238$	$p_0 = 2.2044$	(G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	$\infty 0$	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	p	10	1011	"	65 36	"	65 36	"	65 36	"	2.2044	2.2044

Chalcophanit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 3.5267$	$\lg c = 054737$	$\lg a_0 = 969119$	$\lg p_0 = 037128$	$a_0 = 0.4911$	$p_0 = 2.3511$	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	o	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	p	1	1111	30° 00	76 12	63 50	74 10	29 03	57 15	2.0361	3.5266	4.0722

Chalcosiderit.

Triklin.

$p_0 = 0.8018$	$\lambda = 85^\circ 47'$	$a = 0.7910$	$\alpha = 92^\circ 58'$	$x_0 = 0.0606$	$d = 0.0954$
$q_0 = 0.6339$	$\mu = 85^\circ 23'$	$b = 1$	$\beta = 93^\circ 30'$	$y_0 = 0.0736$	$\delta = 39^\circ 29'$
$r_0 = 1$	$\nu = 72^\circ 05'$	$c = 0.6051$	$\gamma = 107^\circ 41'$	$h = 0.9954$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \varrho$
1	a	∞	010	0° 00'	90° 00'	0° 00'	90° 00'	0° 00'	90° 00'	0	∞	∞
2	b	$\infty 0$	100	72 05'	"	90 00'	"	72 05'	17 55'	3'0930	"	"
3	m	∞	110	40 54'	"	"	"	40 54'	49 05'	0.8664	"	"
4	n	$\infty \infty$	110	116 54'	"	"	90 00'	63 05'	26 54'	1.9704	"	"
5	g	2∞	210	95 15'	"	"	"	84 44'	5 15'	10.8660	"	"
6	π	$\infty \infty$	520	90 31'	"	"	"	89 29'	0 31'	111.38	"	"
7	μ	$\infty \infty$	720	85 05'	"	"	"	85 05'	4 55'	11.630	"	"
8	d	5∞	510	81 04'	"	"	"	81 04'	8 56'	6.3630	"	"
9	u	01	011	4 54'	35 30'	3 29'	35 24'	2 50'	35 21'	0.0609	0.7107	0.7134
10	k	01	011	173 49'	29 31'	"	29 22'	3 02'	29 19'	"	0.5629	0.5662

Childrenit.

Rhombisch.

$a = 0.7780$	$\lg a = 989098$	$\lg a_0 = 0.17024$	$\lg p_0 = 982976$	$a_0 = 1.4799$	$p_0 = 0.6757$
$c = 0.5257$	$\lg c = 972074$	$\lg b_0 = 0.27926$	$\lg q_0 = 972074$	$b_0 = 1.9022$	$q_0 = 0.5257$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\operatorname{tg} \varrho$
1	p	∞	010	0° 00'	90° 00'	0° 00'	90° 00'	0° 00'	90° 00'	0	∞	∞
2	a	$\infty 0$	100	90 00'	"	90 00'	"	90 00'	0 00'	∞	0	"
3	n	∞	110	52 07'	"	"	90 00'	52 07'	37 53'	1.2853	∞	"
4	t	1	111	"	40 34'	34 03'	27 44'	30 53'	23 32'	0.6757	0.5257	0.8561
5	s	12	121	32 43'	51 20'	"	46 26'	24 58'	41 04'	"	1.0275	1.2498
6	r	13	131	23 11'	59 46'	"	57 37'	19 53'	52 34'	"	1.5771	1.7157

Chiolith.

Tetragonal.

$$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 1.0418 \quad \lg c = 0.01779 \quad \lg a_o = 9.98221 \quad a_o = 0.9599$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	?n	0 $\frac{1}{2}$	012	0°00	27 31	"	27 31	"	27 31	"	0.5209	0.5209
3	?x	$\frac{1}{7}$	117	45 00	11 53	8 28	8 28	8 22	8 22	0.1488	0.1488	0.2105
4	o	1	111	"	55 50	46 10	46 10	35 48	35 48	1.0418	1.0418	1.4733

Chloanthit-Smaltin.

Regulär. Pentagonal-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	$\left\{ \begin{matrix} — \\ 0°00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$
2	B	$\left\{ \begin{matrix} 0 \frac{1}{10} \\ 0 \frac{1}{10} \\ \infty 10 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 1 \cdot 10 \\ 0 \cdot 10 \cdot 1 \\ 1 \cdot 10 \cdot 0 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 5 42' \end{matrix} \right.$	$\left\{ \begin{matrix} 5 42' \\ 84 17' \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 5 42' \\ 84 17' \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 5 42' \end{matrix} \right.$	$\left\{ \begin{matrix} 5 42' \\ 84 17' \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 0 \cdot 1000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 1000 \\ 10 \cdot 000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 1000 \\ 10 \cdot 000 \\ \infty \end{matrix} \right.$
3	ϵ	$\left\{ \begin{matrix} 0 \frac{1}{5} \\ 05 \\ \infty 5 \end{matrix} \right.$	$\left\{ \begin{matrix} 015 \\ 051 \\ 150 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 11 18' \end{matrix} \right.$	$\left\{ \begin{matrix} 11 18' \\ 78 41' \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 11 18' \\ 78 41' \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 11 18' \end{matrix} \right.$	$\left\{ \begin{matrix} 11 18' \\ 78 41' \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \\ 0 \cdot 2000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 2000 \\ 5 \cdot 0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 2000 \\ 5 \cdot 0000 \\ \infty \end{matrix} \right.$
4	a	$\left\{ \begin{matrix} 0 \frac{1}{3} \\ 03 \\ \infty 3 \end{matrix} \right.$	$\left\{ \begin{matrix} 013 \\ 031 \\ 130 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 18 26 \end{matrix} \right.$	$\left\{ \begin{matrix} 18 26 \\ 71 34 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 18 26 \\ 71 34 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 18 26 \end{matrix} \right.$	$\left\{ \begin{matrix} 18 26 \\ 71 34 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \\ 0 \cdot 3333 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 3333 \\ 3 \cdot 0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 3333 \\ 3 \cdot 0000 \\ \infty \end{matrix} \right.$
5	e	$\left\{ \begin{matrix} 0 \frac{1}{2} \\ 02 \\ \infty 2 \end{matrix} \right.$	$\left\{ \begin{matrix} 012 \\ 021 \\ 120 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 26 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 26 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \\ 0 \cdot 5000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 5000 \\ 2 \cdot 0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 5000 \\ 2 \cdot 0000 \\ \infty \end{matrix} \right.$
6	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ 1 \cdot 0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 1 \cdot 0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 1 \cdot 0000 \\ \infty \end{matrix} \right.$
7	q	$\left\{ \begin{matrix} \frac{1}{12} \\ 12 \end{matrix} \right.$	$\left\{ \begin{matrix} 112 \\ 121 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 26 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 35 16 \\ 65 54' \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \end{matrix} \right.$	$\left\{ \begin{matrix} 24 05' \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 24 05' \\ 54 44 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 5000 \\ 1 \cdot 0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 5000 \\ 2 \cdot 0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 7071 \\ 2 \cdot 2360 \end{matrix} \right.$
8	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1.0000	1.4142
9	?D	$\left\{ \begin{matrix} \frac{1}{8} \\ \frac{1}{3} \\ 38 \end{matrix} \right.$	$\left\{ \begin{matrix} 138 \\ 183 \\ 381 \end{matrix} \right.$	$\left\{ \begin{matrix} 18 26 \\ 7 07' \\ 20 33' \end{matrix} \right.$	$\left\{ \begin{matrix} 21 34 \\ 69 35' \\ 83 19' \end{matrix} \right.$	$\left\{ \begin{matrix} 7 07' \\ 18 26 \\ 71 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 20 33' \\ 69 26' \\ 82 53' \end{matrix} \right.$	$\left\{ \begin{matrix} 6 40' \\ " \\ 20 24' \end{matrix} \right.$	$\left\{ \begin{matrix} 20 24' \\ 68 26 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 1250 \\ 0 \cdot 3333 \\ 3 \cdot 0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 3750 \\ 2 \cdot 6667 \\ 8 \cdot 0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \cdot 3953 \\ 2 \cdot 6874 \\ 8 \cdot 5440 \end{matrix} \right.$

Chloritgruppe.

(Klinochlor. Ripidolith. Pennin. Kämmererit. Cronstedtit.)

Hexagonal. Rhomboedrisch-hemiedrisch. (?)

[Monoklin?] ¹⁾

$c = 3.3890$	$\lg c = 0.53007$	$\lg a_0 = 970849$	$\lg p_0 = 0.35398$	$a_0 = 0.5111$	$p_0 = 2.2593$
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	∞0	1010	0° 00	90 00	''	90 00	''	90 00	''	∞	∞
3	?β	$\frac{4}{3}0$	4049	''	45 07	''	45 07	''	45 07	''	1'0042	1'0042
4	u	$\frac{4}{3}0$	4047	''	52 14'	''	52 14'	''	52 14'	''	1'2910	1'2910
5	n	$\frac{4}{3}0$	4045	''	61 03	''	61 03	''	61 03	''	1'8075	1'8075
6	m	10	1011	''	66 06'	''	66 06'	''	66 06'	''	2'2593	2'2593
7	t	$\frac{4}{3}0$	4043	''	71 38	''	71 38	''	71 38	''	3'0124	3'0124
8	o	20	2021	''	77 31'	''	77 31'	''	77 31'	''	4'5187	4'5187
9	?x	$\frac{4}{11}$	4'4'8'11	30 00	54 54	35 26	50 56'	24 09	45 07	0'7115	1'2324	1'4230
10	?y	$\frac{2}{5}$	2245	''	57 25'	38 03	53 35	24 55	46 52	0'7826	1'3556	1'5653
11	s	$\frac{1}{2}$	1122	''	62 56	44 22'	59 27	26 26	50 27'	0'9783	1'6945	1'9566
12	w	$\frac{4}{7}$	4487	''	65 54'	48 11'	62 41'	27 09'	52 14'	1'1181	1'9635	2'2361
13	z	$\frac{4}{5}$	4485	''	72 17	57 25'	69 45	28 26'	55 35	1'5653	2'7112	3'1307
14	v	1	1121	''	75 40	62 56	73 33'	28 58'	57 02'	1'9566	3'3890	3'9133
15	q	3	3361	''	85 08	80 20	84 23	29 53	59 38'	5'8701	10'167	11'740
16	f	4	4481	''	86 20'	82 43	85 47	29 56	59 48	7'8263	13'556	15'653

Chlorocalcit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	— 0° 00	0° 00 90 00	0° 00 ''	0° 00 90 00	0° 00 ''	0° 00 90 00	0 ''	0 ∞	0 ∞
2	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 011 \\ 110 \end{array} \right.$	'' 45 00	45 00 90 00	'' 90 00	45 00 90 00	'' 45 00	45 00 ''	'' 1'0000	1'0000 ∞	1'0000 ∞
3	p	1	111	''	54 44	45 00	45 00	35 16	35 16	''	1'0000	1'4142

¹⁾ Ueber die monokline Deutung der Formen siehe die Bemerkungen am Schluss der Tabellen. Die Umdeutung ändert die Winkel nicht.

Chlorsilber.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
			010	0°00	90 00	90 00	90 00	90 00	90 00	90 00	∞	∞
2	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011	”	45 00	”	45 00	”	45 00	”	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	”	1'0000	∞	∞
3	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112	”	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	”	54 44	1 0000	2'0000	2'2360
4	p	1	111	45 00	54 44	”	45 00	35 16	35 16	”	1'0000	1'4142
5	u	$\left\{ \begin{array}{l} \frac{1}{2}1 \\ 2 \end{array} \right.$	122	26 34	48 11'	26 34	”	19 28	41 48'	0'5000	”	1'1180
			221	45 00	70 31'	63 26	63 26	41 48'	”	2'0000	2'0000	2'8284

Christobalit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	p	1	111	45°00	54°44	45°00	45°00	35°16	35°16	1'0000	1'0000	1'4142

Chromeisenerz.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011	0°00	45°00	0°00	45°00	0°00	45°00	0	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	”	1'0000	∞	∞
2	m	$\left\{ \begin{array}{l} \frac{1}{3} \\ 13 \end{array} \right.$	113	”	25 14'	18 26	18 26	17 33	17 33	0'3333	0'3333	0'4714
			131	18 26	72 27	45 00	71 34	”	64 45'	1'0000	3'0000	3'1623
3	p	1	111	45 00	54 44	”	45 00	35 16	35 16	”	1'0000	1'4142
4	u	$\left\{ \begin{array}{l} \frac{1}{2}1 \\ 2 \end{array} \right.$	122	26 34	48 11'	26 34	”	19 28	41 48'	0'5000	”	1'1180
			221	45 00	70 31'	63 26	63 26	41 48'	”	2'0000	2'0000	2'8284

Chrysoberyll.

Rhombisch.

$a = 0.470$	$\lg a = 967210$	$\lg a_o = 990867$	$\lg p_o = 009133$	$a_o = 0.8103$	$p_o = 1.2340$
$c = 0.580$	$\lg c = 976343$	$\lg b_o = 023657$	$\lg q_o = 976343$	$b_o = 1.7241$	$q_o = 0.5800$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞∞	010	0°00	90°00	”	90°00	”	90°00	”	∞	∞
3	c	∞o	100	90°00	”	90°00	o°00	90°00	o°00	∞	o	”
4	m	∞	110	64 49'	”	”	90°00	64 49'	25 10'	2'1276'	∞	”
5	u	∞ _{3/2}	230	54 49'	”	”	”	54 49'	35 11'	1'4184'	”	”
6	s	∞ ₂	120	46 46'	”	”	”	46 46'	43 13'	1'0638'	”	”
7	r	∞ ₃	130	35 20'	”	”	”	35 20'	54 39'	0'7092	”	”
8	f	∞ _{7/2}	270	31 17'	”	”	”	31 17'	58 42'	0'6079	”	”
9	d	∞ ₆	160	19 31'	”	”	”	19 31'	70 28'	0'3546	”	”
10	i	01	011	o°00	30°07	o°00	30°07	o°00	30°07	o	0.5800	0.5800
11	k	02	021	”	49°14	”	49°14	”	49°14	”	1.1600	1.1600
12	ℓ	03	031	”	60°07	”	60°07	”	60°07	”	1.7400	1.7400
13	z	$\frac{2}{3}o$	203	90°00	39°26'	39°26'	o°00	39°26'	o°00	0.8227	o	0.8227
14	y	$\frac{1}{2}o$	102	”	31°40'	31°40'	”	31°40'	”	0.6170	”	0.6170
15	x	10	101	”	50°59	50°59	”	50°59	”	1.2340	”	1.2340
16	p	16	161	19°31'	74°51'	”	73°58'	18°49'	65°28'	”	3.4800	3.6923
17	n	12	121	46°46'	59°26'	”	49°14'	38°51'	36°08'	”	1.1600	1.6938
18	o	1	111	64°49'	53°44'	”	30°07'	46°52'	20°03'	”	0.5800	1.3635
19	w	$\frac{1}{2}1$	122	46°46'	40°15'	31°40'	”	28°05'	26°16'	0.6170	”	0.8468
20	v	21	211	76°46'	68°28'	67°56'	”	64°54'	12°17'	2.4680	”	2.5353

Claudetit.

Monoklin.

$a = 0.4040$	$\lg a = 960638$	$\lg a_o = 006919$	$\lg p_o = 993081$	$a_o = 1.1727$	$p_o = 0.8527$
$c = 0.3445$	$\lg c = 953719$	$\lg b_o = 046281$	$\lg q_o = 953616$	$b_o = 2.9027$	$q_o = 0.3437$
$\mu = \left. \begin{matrix} 86^\circ 03' \\ 180 - \beta \end{matrix} \right\}$	$\lg h = \left. \begin{matrix} 999897 \\ \lg \sin \mu \end{matrix} \right\}$	$\lg e = \left. \begin{matrix} 883813 \\ \lg \cos \mu \end{matrix} \right\}$	$\lg \frac{p_o}{q_o} = 039465$	$h = 0.9976$	$e = 0.0689$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	b	∞∞	010	0°00	90°00	0°00	90°00	0°00	90°00	o	∞	∞
2	a	∞o	100	90°00	”	90°00	o°00	90°00	o°00	∞	o	”
3	p	∞	110	68°03'	”	”	90°00	68°03'	21°57'	2'4811'	∞	”

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
4	r	$\infty 2$	120	51° 07'	90° 00'	90° 00'	90° 00'	51° 07'	38° 52'	1'2405'	∞	∞
5	s	$\infty 3$	130	39 35'	"	"	"	39 35'	50 24'	0'8270	"	"
6	t	$\infty 10$	1'10'0	13 56'	"	"	"	13 56'	76 04'	0.2481	"	"
7	γ	01	011	11 20'	19 21'	3 57'	19 00'	3 44'	18 58'	0'0690'	0'3445	0'3514
8	β	02	021	5 43'	34 42'	"	34 34'	3 15'	34 30'	"	0'6890	0'6925
9	d	+10	101	90 00'	42 44'	42 44'	0 00'	42 44'	0 00'	0'9238	0	0'9238
10	q	-10	101	90 00'	38 09'	38 09'	"	38 09'	"	0'7856	"	0'7856
11	o	+1	111	69 33'	44 35'	42 44'	19 00'	41 08'	14 12'	0'9238	0'3445	0'9859
12	g	-1	111	66 19'	40 37'	38 09'	"	36 36'	15 09'	0'7856	"	0'8579

Cölestin.

Rhombisch.

a = 0'7811	lg a = 989271	lg a ₀ = 978448	lg p ₀ = 021552	a ₀ = 0'6088	p ₀ = 1'6426
c = 1'2830	lg c = 010823	lg b ₀ = 989177	lg q ₀ = 010823	b ₀ = 0'7794	q ₀ = 1'2830

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	a	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	0 ∞	010	0° 00'	90 00'	"	90 00'	"	90 00'	0	∞	∞
3	c	$\infty 0$	100	90 00'	"	90 00'	0 00'	90 00'	0 00'	∞	0	"
4	p	2 ∞	210	68 40'	"	"	90 00'	68 40'	21 20'	2'5604'	∞	"
5	t	$\frac{5}{3}\infty$	530	64 53'	"	"	"	64 53'	25 06'	2'1337'	"	"
6	u	$\frac{2}{3}\infty$	320	62 29'	"	"	"	62 29'	27 30'	1'9203'	"	"
7	ω	$\frac{7}{3}\infty$	750	60 50'	"	"	"	60 50'	29 09'	1'7923	"	"
8	γ	$\frac{4}{3}\infty$	650	56 56'	"	"	"	56 56'	33 03'	1'5363	"	"
9	m	∞	110	52 00'	"	"	"	52 00'	37 59'	1'2802'	"	"
10	n	$\infty 2$	120	32 37'	"	"	"	32 37'	57 22'	0'6401	"	"
11	a	0 $\frac{1}{20}$	0'1'20	0 00'	3 40'	0 00'	3 40'	0 00'	3 40'	0	0'0641'	0'0641'
12	ξ	0 $\frac{1}{12}$	0'1'12	"	6 06'	"	6 06'	"	6 06'	"	0'1064'	0'1064'
13	b	0 $\frac{1}{10}$	0'1'10	"	7 18'	"	7 18'	"	7 18'	"	0'1283	0'1283
14	ϱ	0 $\frac{1}{8}$	018	"	9 06'	"	9 06'	"	9 06'	"	0'1603'	0'1603'
15	r	0 $\frac{1}{5}$	015	"	14 23'	"	14 23'	"	14 23'	"	0'2566	0'2566
16	i	0 $\frac{1}{3}$	013	"	23 09'	"	23 09'	"	23 09'	"	0'4276'	0'4276'
17	h	0 $\frac{1}{2}$	012	"	32 41'	"	32 41'	"	32 41'	"	0.6415	0'6415
18	ζ	0 $\frac{2}{3}$	023	"	40 32'	"	40 32'	"	40 32'	"	0'8553'	0'8553'
19	o	01	011	"	52 04'	"	52 04'	"	52 04'	"	1'2830	1'2830
20	ε	02	021	"	68 42'	"	68 42'	"	68 42'	"	2.5660	2'5660
21	δ	1 $\frac{1}{8}$ 0	108	90 00'	11 36'	11 36'	0 00'	11 36'	0 00'	0'2053	0	0'2053

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ρ
22	λ	$\frac{2}{11}0$	20011	90°00	16°37'	16°37'	0°00	16°37'	0°00	0.2986	0	0.2986
23	c	$\frac{1}{5}0$	105	"	18 11	18 11	"	18 11	"	0.3285	"	0.3285
24	l	$\frac{1}{4}0$	104	"	22 19'	22 19'	"	22 19'	"	0.4106	"	0.4106
25	ν	$\frac{2}{7}0$	207	"	25 08'	25 08'	"	25 08'	"	0.4693	"	0.4693
26	g	$\frac{1}{3}0$	103	"	28 42	28 42	"	28 42	"	0.5475	"	0.5475
27	d	$\frac{1}{2}0$	102	"	39 23'	39 23'	"	39 23'	"	0.8213	"	0.8213
28	e	$\frac{3}{4}0$	304	"	50 56	50 56	"	50 56	"	1.2319	"	1.2319
29	k	10	101	"	58 40	58 40	"	58 40	"	1.6425	"	1.6425
30	X	$\frac{9}{8}0$	908	"	61 34'	61 34'	"	61 34'	"	1.8478	"	1.8478
31	N	$\frac{7}{5}0$	705	"	66 30	66 30	"	66 30	"	2.2996	"	2.2996
32	a	$\frac{1}{5}0$	115	52 00'	22 37'	18 11	14 23'	17 39	13 42	0.3285	0.2566	0.4169
33	q	$\frac{1}{4}$	114	"	27 31'	22 19'	17 47	21 21'	16 31'	0.4106	0.3207	0.5211
34	f	$\frac{1}{3}$	113	"	34 47'	28 42	23 09'	26 43	20 33'	0.5475	0.4276	0.6948
35	s	$\frac{1}{2}$	112	"	46 11	39 23'	32 41	34 39	26 22	0.8213	0.6415	1.0421
36	z	1	111	"	64 22	58 40	52 04	45 16'	33 42'	1.6425	1.2830	2.0842
37	σ	2	221	"	76 30'	73 04	68 42'	50 01'	36 46	3.2851	2.5660	4.1685
38	β	12	121	32 37'	71 49'	58 40	"	30 48'	53 09	1.6425	"	3.0467
39	θ	13	131	23 06'	76 33'	"	75 26	22 26'	63 27	"	3.8490	4.1848
40	R	$\frac{1}{19}1$	1.19.19	3 51'	52 07'	4 56'	52 04	3 02'	51 58	0.0864	1.2830	1.2859
41	τ	$\frac{1}{16}1$	1.16.16	4 34'	52 09'	5 51'	"	3 36'	51 55	0.1026	"	1.2871
42	d	$\frac{1}{10}1$	1.10.10	7 17'	52 17'	9 19'	"	5 46	51 41'	0.1642	"	1.2934
43	φ	$\frac{1}{6}1$	166	12 02'	52 41	15 18'	"	9 33	51 03'	0.2737	"	1.3119
44	L	$\frac{1}{5}1$	155	14 21'	52 56'	18 11	"	11 25	50 38	0.3285	"	1.3244
45	λ	$\frac{1}{4}1$	144	17 45	53 24'	22 19'	"	14 10	49 53	0.4106	"	1.3471
46	η	$\frac{2}{7}1$	277	20 05'	53 47'	25 08'	"	16 05'	49 16'	0.4693	"	1.3661
47	ψ	$\frac{1}{3}1$	133	23 06'	54 22	28 42	"	18 36	48 22'	0.5475	"	1.3950
48	y	$\frac{1}{2}1$	122	32 37'	56 43	39 23'	"	26 47'	44 45'	0.8213	"	1.5233
49	f	$\frac{1}{24}$	214	68 40	41 24	"	17 47	38 01'	13 55'	"	0.3207	0.8817
50	e	$\frac{1}{23}$	326	62 29'	42 48	"	23 09'	37 03'	18 17'	"	0.4277	0.9260
51	w	$\frac{1}{19}$	5.12.10	28 04'	60 11	"	56 59'	24 06	49 57	"	1.5396	1.7449
52	μ	$\frac{1}{2}$	132	23 06'	64 27'	"	62 32'	20 44'	56 05	"	1.9245	2.0924
53	τ	$\frac{1}{2}$	142	17 45	69 38	"	68 42'	16 36'	63 14	"	2.5660	2.6942
54	θ	$\frac{1}{4}$	124	32 37'	37 17'	22 19'	32 41	19 04	30 41	0.4106	0.6415	0.7616
55	v	$\frac{3}{4}$	324	62 29'	54 15	50 56	"	46 02'	22 08	1.2319	"	1.3889
56	A	$\frac{1}{3}$	143	17 45	60 53'	28 42	59 41'	15 26'	56 19	0.5475	1.7107	1.7961
57	B	$\frac{1}{3}$	153	14 21'	65 37'	"	64 26	13 03'	61 56	"	2.1382	2.2073
58	x	$\frac{3}{5}$	135	23 06'	39 55'	18 11	37 35'	14 35'	36 11	0.3285	0.7698	0.8370
59	D	$\frac{2}{5}$	215	68 40	33 12	33 18'	14 23'	32 28'	12 06'	0.6570	0.2566	0.7054
60	E	$\frac{1}{6}$	146	17 45	41 55'	15 18'	40 32'	11 45	39 31'	0.2737	0.8553	0.8981
61	F	$\frac{1}{7}$	187	9 05'	56 02'	13 12'	55 42'	7 32	54 59	0.2346	1.4663	1.4849
62	G	$\frac{2}{9}$	129	32 37'	18 42	10 20'	15 55	9 57	15 40	0.1825	0.2851	0.3385
63	H	$\frac{2}{3}$	1.24.23	3 03	53 17	4 05	53 14'	2 27	53 10'	0.0714	1.3388	1.3407
64	I	$\frac{1}{24}$	1.16.24	4 34'	40 38	3 55	40 32'	2 58'	40 28'	0.0684	0.8553	0.8581
65	K	$\frac{2}{3}$	253	27 07	67 24	47 36	64 26	24 53	55 15'	1.0950	2.1382	2.4024
66	V	$\frac{1}{4}$	524	72 39	65 04	64 02	32 41	59 56'	15 41'	2.0532	0.6415	2.1510

Colemanit.

Monoklin.

a = 0.7755	lg a = 988958	lg a ₀ = 015598	lg p ₀ = 984402	a ₀ = 1.4321	p ₀ = 0.6983
c = 0.5415	lg c = 973360	lg b ₀ = 026640	lg q ₀ = 970598	b ₀ = 1.8467	q ₀ = 0.5081
$\mu_{180-\beta} = \left. \begin{matrix} \\ \end{matrix} \right\} 69^{\circ}47'$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 997238$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 953854$	$\left. \begin{matrix} \lg p_0 = \\ \lg q_0 \end{matrix} \right\} 013804$	h = 0.9384	e = 0.3456

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	g	0	001	90°00	20°13	20°13	0°00	20°13	0°00	0.3682	0	0.3682
2	m	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	n	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	t	2∞	210	70 00'	"	"	90 00	70 00'	19 59'	2.7483	∞	"
5	s	∞	110	53 57'	"	"	"	53 57'	36 02'	1.3741	"	"
6	z	∞2	120	34 29'	"	"	"	34 29'	55 30'	0.6871	"	"
7	c	01	011	34 13	33 13	20 13	28 26	17 56'	26 56	0.3683	0.5415	0.6549
8	a	02	021	18 57	48 50'	"	47 17	14 01'	45 28	"	1.0830	1.1439
9	V	+10	101	90 00	48 03	48 03	0 00	48 03	0 00	1.1126	0	1.1126
10	λ	+20	201	"	61 41'	61 41'	"	61 41'	"	1.8566	"	1.8566
11	i	-10	101	90 00	20 36	20 36	"	20 36	"	0.3758	"	0.3758
12	h	-20	201	"	48 14'	48 14'	"	48 14'	"	1.1200	"	1.1200
13	W	-30	301	"	61 47'	61 47'	"	61 47'	"	1.8641	"	1.8641
14	Ψ	-40	401	"	69 01'	69 01'	"	69 01'	"	2.6083	"	2.6083
15	U	-60	601	"	76 17	76 17	"	76 17	"	4.0966	"	4.0966
16	G	+7	771	55 48	81 34	79 50	75 13'	54 54	33 47	5.5773	3.7905	6.7434
17	σ	+3	331	58 00'	71 56'	68 58	58 23	53 44'	30 14'	2.6007	1.6245	3.0664
18	b	+1	111	64 03	51 03	48 03	28 26	44 22	19 54	1.1124	0.5670	1.2372
19	y	-1	111	34 46	33 23'	20 36	"	18 17	26 53	0.3758	"	0.6592
20	v	-2	221	45 58	57 18'	48 14'	47 17	37 14	35 48	1.1200	1.0830	1.5580
21	q	-3	331	48 56	67 59	61 47'	58 23	44 20'	37 31	1.8642	1.6245	2.4726
22	ω	+13	131	34 24	63 04'	48 03	"	30 15	47 21'	1.1124	"	1.9689
23	e	+12	121	45 46	57 13	"	47 17	37 02'	35 54'	"	1.0830	1.5525
24	r	-1½	232	24 50	41 50	20 36	39 05	16 16	37 15	0.3758	0.8122	0.8950
25	d	-12	121	19 08'	48 54	"	47 17	14 18	45 23'	"	1.0830	1.1464
26	x	-13	131	13 01'	59 03	"	58 23	11 09	56 40	"	1.6245	1.6673
27	k	+31	311	78 14'	69 22'	68 58	28 26	66 23	11 00	2.6008	0.5415	2.6565
28	Φ	+71	711	84 27	79 53	79 50	"	78 28'	5 27'	5.5772	"	5.6035
29	C	+10.1	10.1.1	86 02	82 43	82 42	"	81 42'	3 56	7.8098	"	7.8285
30	o	-21	211	64 12	51 12'	48 14'	"	44 34	19 50	1.1200	"	1.2440
31	Θ	-31	311	73 48	62 44'	61 47'	"	58 37	14 21'	1.8641	"	1.9412
32	B	-41	411	78 16'	69 25'	69 01'	"	66 26'	10 58	2.6083	"	2.6639
33	ε	-2½	412	76 24'	49 03	48 14'	15 09	47 14	10 13'	1.1200	0.2700	1.1523

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
34	ε	-23	231	34° 35'	63° 07'	48° 14'	58° 23'	30° 25'	47° 15'	1:1200	1:6245	1:9731
35	Q	-24	241	79 03	48 45	"	12 13	47 35	8 12	"	0:2166	1:1407
36	γ	-32	321	59 50	65 07	61 47	47 17	51 40	27 06	1:8641	1:0830	2:1559
37	w	-72	721	77 23	78 36	78 19	"	73 04	12 21	4:8407	"	4:9604
38	D	+73	731	73 45	80 14	79 50	58 23	71 07	16 00	5:5772	1:6245	5:8090

Columbit.

Rhombisch.

$a = 0.4023$	$\lg a = 960455$	$\lg a_0 = 005067$	$\lg p_0 = 994933$	$a_0 = 1.1237$	$p_0 = 0.8899$
$c = 0.3580$	$\lg c = 955388$	$\lg b_0 = 044612$	$\lg q_0 = 955388$	$b_0 = 2.7933$	$q_0 = 0.3580$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	0∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	g	∞	110	68 05	"	"	90 00	68 05	21 55	2:4857	∞	"
5	m	∞3	130	39 38	"	"	"	39 38	50 21	0:8286	"	"
6	z	∞5	150	26 26	"	"	"	26 26	63 34	0:4971	"	"
7	y	∞6	160	22 30	"	"	"	22 30	67 30	0:4143	"	"
8	d	∞7	170	19 33	"	"	"	19 33	70 27	0:3551	"	"
9	l	0½	012	0 00	10 09	0 00	10 09	0 00	10 09	0	0:1790	0:1790
10	k	01	011	"	19 42	"	19 42	"	19 42	"	0:3580	0:3580
11	f	0½	032	"	28 14	"	28 14	"	28 14	"	0:5370	0:5370
12	μ	0⅝	085	"	29 48	"	29 48	"	29 48	"	0:5728	0:5728
13	h	02	021	"	35 36	"	35 36	"	35 36	"	0:7160	0:7160
14	λ	0⅔	083	"	43 40	"	43 40	"	43 40	"	0:9546	0:9546
15	i	10	101	90 00	41 40	41 40	0 00	41 40	0 00	0:8899	0	0:8899
16	e	20	201	"	60 39	60 39	"	60 39	"	1:7785	"	1:7785
17	x	16	161	22 30	66 43	41 40	65 02	20 35	58 04	0:8899	2:1480	2:3250
18	o	13	131	39 38	54 21	"	47 02	31 14	38 44	"	1:0740	1:3947
19	β	12	121	51 11	48 48	"	35 36	35 53	28 08	"	0:7160	1:1422
20	u	1	111	68 05	43 48	"	19 42	39 57	14 58	"	0:3580	0:9590
21	a	⅓1	133	39 38	24 56	16 31	"	15 36	18 56	0:2966	"	0:4649
22	n	21	211	78 37	61 09	60 40	"	59 10	9 57	1:7798	"	1:8154
23	φ	41	411	84 15	74 23	74 18	"	73 23	5 32	3:5595	"	3:5774
24	r	9	991	68 05	83 23	82 53	72 45	67 09	21 45	8:0088	3:2219	8:6327
25	s	2	221	"	62 28	60 40	35 36	55 21	19 19	1:7798	0:7160	1:9184
26	t	24	241	51 11	66 21	"	55 04	45 32	35 03	"	1:4320	2:2843
27	σ	⅓2	163	22 30	37 46	16 31	35 36	13 33	34 28	0:2966	0:7160	0:7750
28	π	23	231	58 53	64 18	60 40	47 02	50 29	27 45	1:7798	1:0740	2:0788

Connellit.

Hexagonal. Holoedrisch.

$c = 2\ 0031$	$\lg c = 030170$	$\lg a_0 = 993686$	$\lg p_0 = 012561$	$a_0 = 0\cdot8647$	$p_0 = 1\cdot3354$	(G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞0	10T0	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	11Z0	30 00	"	90 00	"	30 00	60 00	0°5773	"	"
4	r	10	10T1	0 00	53 10	0 00	53 10	0 00	53 10	o	1'3354	1'3354
5	o	$\frac{11\frac{2}{3}}$	11'2'T3'3	8 13	79 30	37 38	79 24	8 04'	76 42	0°7710	5'3416	5'3970

Copiapit.

Monoklin.

$a = 0\cdot4791$	$\lg a = 968043$	$\lg a_0 = 969138$	$\lg p_0 = 030862$	$a_0 = 0\cdot4913$	$p_0 = 2\cdot0353$
$c = 0\cdot9751$	$\lg c = 998905$	$\lg b_0 = 001095$	$\lg q_0 = 996738$	$b_0 = 1\cdot0255$	$q_0 = 0\cdot9276$
$\mu = \left. \begin{matrix} 180 - \beta \\ \end{matrix} \right\} 72^\circ 03$	$\lg h = \left. \begin{matrix} \lg \sin \mu \\ \end{matrix} \right\} 997833$	$\lg e = \left. \begin{matrix} \lg \cos \mu \\ \end{matrix} \right\} 948881$	$\lg \frac{p_0}{q_0} = 034124$	$h = 0\cdot9513$	$e = 0\cdot3082$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	b	o∞	010	0°00	90°00	0°00	90°00	0°00	90°00	o	∞	∞
2	m	∞	110	65 30	"	90 00	"	65 30	24 30	2'1940	"	"
3	p	∞2	120	47 39	"	"	"	47 39	42 21	1'0970	"	"
4	s	$0\frac{1}{5}$	015	58 57	20 43	17 57	11 02	17 38'	10 30'	0'3239'	0'1950	0'3781
5	r	$0\frac{2}{3}$	023	26 29'	35 59'	"	33 01'	15 12	31 44	"	0'6501	0'7263
6	q	01	011	18 23	45 46'	"	44 17	13 03'	42 51	"	0'9751	1'0275
7	d	$-\frac{4}{9}0$	409	90 00	32 05	32 05	0 00	32 05	0 00	8'6269	o	0'6269
8	o	$-\frac{4}{9}$	449	55 21	37 19	"	23 26	39 59'	20 10	"	0'4334	0'7621
9	x	$+\frac{4}{9}\frac{2}{7}$	427	79 47	57 31'	57 07	15 34	56 08	8 36	1'5465	0'2786	1'5713
10	n	$-\frac{1}{4}\frac{1}{7}$	7'4'28	56 33	14 11	11 54'	7 56	11 48	7 46	8'2108'	0'1393	0'2527
11	y	$-\frac{5}{9}\frac{1}{9}$	15'2'18	85 45	55 39	55 44'	6 11	55 25	3 30'	1'4589	0'1083'	1'4629

Coquimbit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 2.7098$	$\lg c = 0.43294$	$\lg a_0 = 9.80562$	$\lg p_0 = 0.25685$	$a_0 = 0.6392$	$p_0 = 1.8065$	(G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	a	∞ o	10 $\bar{1}$ 0	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	11 $\bar{2}$ 0	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	z	$\frac{1}{2}$ o	10 $\bar{1}$ 3	0 00	31 03'	0 00	31 03'	0 00	31 03'	o	0.6022	0.6022
5	n	$\frac{1}{2}$ o	$\bar{3}$ 037	"	37 45'	"	37 45'	"	37 45'	"	0.7742	0.7742
6	y	$\frac{2}{3}$ o	10 $\bar{1}$ 2	"	42 05'	"	42 05'	"	42 05'	"	0.9033	0.9033
7	q	$\frac{3}{4}$ o	30 $\bar{3}$ 5	"	47 18'	"	47 18'	"	47 18'	"	1.0839	1.0839
8	β	$\frac{1}{2}$ o	$\bar{3}$ 034	"	53 34'	"	53 34'	"	53 34'	"	1.3549	1.3549
9	x η	$\frac{1}{2}$ o	10 $\bar{1}$ 1	"	61 02'	"	61 02'	"	61 02'	"	1.8065	1.8065
10	ω	$\frac{3}{2}$ o	30 $\bar{3}$ 2	"	69 44'	"	69 44'	"	69 44'	"	2.7098	2.7098
11	a A	$\frac{1}{2}$ o	30 $\bar{3}$ 1	"	79 33'	"	79 33'	"	79 33'	"	5.4196	5.4196
12	d	$\frac{1}{2}$ o	11 $\bar{2}$ 2	30 00	57 25'	38 02'	53 34'	24 55'	46 51'	0.7822	1.3549	1.5645
13	e	1	11 $\bar{2}$ 1	"	72 16'	57 25'	69 44'	28 26'	55 34'	1.5645	2.7098	3.1290

Cordierit.

Rhombisch.

$a = 0.5871$	$\lg a = 9.76871$	$\lg a_0 = 0.02176$	$\lg p_0 = 9.97824$	$a_0 = 1.0514$	$p_0 = 0.9511$
$c = 0.5584$	$\lg c = 9.74695$	$\lg b_0 = 0.25305$	$\lg q_0 = 9.74695$	$b_0 = 1.7908$	$q_0 = 0.5584$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	a	∞ ∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞ o	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	m	∞	110	59 35'	"	"	90 00	59 35'	30 25'	1.7033	∞	"
5	d	∞ 3	130	29 35'	"	"	"	29 35'	60 25'	0.5677	"	"
6	l	∞ $\frac{1}{2}$	012	0 00	15 36'	0 00	15 36'	0 00	15 36'	o	0.2792	0.2792
7	n	01	011	"	29 11'	"	29 11'	"	29 11'	"	0.5584	0.5584
8	p	02	021	"	48 10'	"	48 10'	"	48 10'	"	1.1168	1.1168
9	q	04	041	"	65 53'	"	65 53'	"	65 53'	"	2.2336	2.2336
10	f	$\frac{1}{2}$ o	102	90 00	25 26'	25 26'	0 00	25 26'	0 00	0.4755	o	0.4755
11	e	$\frac{1}{10}$	101	"	43 34'	43 34'	"	43 34'	"	0.9511	"	0.9511
12	h	2	221	59 35'	65 37'	62 16'	48 09'	51 45'	27 27'	1.9022	1.1168	2.2058

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
13	r	1	111	59° 35'	47° 48'	43° 34'	29° 10'	39° 42'	22° 01'	0·9511	0·5584	1·1029
14	s	$\frac{1}{2}$	112	"	28 52'	25 26	15 36	24 36'	14 09	0·4755'	0·2792	0·5515
15	t	$\frac{1}{4}$	114	"	15 25	13 22'	7 57	13 15	7 44	0·2378	0·1396	0·2757
16	o	13	131	29 35	62 34	43 34	59 10	25 59'	50 31	0·9511	1·6752	1·9264
17	? π	$\frac{1}{2}$ $\frac{3}{2}$	132	"	43 55'	25 26	39 57	20 02	37 06'	0·4755'	0·8376	0·9632
18	u	$\frac{1}{4}$ $\frac{3}{4}$	134	"	25 43	13 22'	22 43'	12 22	22 10	0·2378	0·4188	0·4816

Corynit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	p	1	111	45° 00'	54° 44'	45° 00'	45° 00'	35° 16'	35° 16'	1·0000	1·0000	1·4142

Cosalith.

Rhombisch.

a = 0·9188	lg a = 996322	lg a ₀ = 979881	lg p ₀ = 020119	a ₀ = 0·6292	p ₀ = 1·5892
c = 1·4602	lg c = 016441	lg b ₀ = 983559	lg q ₀ = 016441	b ₀ = 0·6848	q ₀ = 1·4602

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	0 ∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞ 0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	i	∞ 4	140	15 13'	"	"	90 00	15 13'	74 46'	0·2721	∞	"
5	f	$\frac{01}{1}$	011	0 00	55 35'	0 00	55 35'	0 00	55 35'	0	1·4602	1·4602
6	d	$\frac{1}{4}$ 0	104	90 00	21 40	21 40	0 00	21 40	0 00	0·3973	0	0·3973
7	e	10	101	"	57 49	57 49	"	57 49	"	1·5892	"	1·5892
8	k	2	221	47 25'	76 57'	72 32	71 06	45 50	41 14	3·1784	2·9204	4·3164
9	g	$\frac{1}{4}$ 1	144	15 13	56 32'	21 40	55 35'	12 39	53 36'	0·3973	1·4636	1·5133
10	h	$\frac{1}{2}$ 2	142	"	71 43	35 28	71 06	14 26	66 22'	0·7946	2·9204	3·0266

Cotunnit.

Rhombisch.

a = 0.5937	lg a = 977357	lg a ₀ = 969788	lg p ₀ = 030212	a ₀ = 0.4987	p ₀ = 2.0050
c = 1.1904	lg c = 007569	lg b ₀ = 992431	lg q ₀ = 007569	b ₀ = 0.8401	q ₀ = 1.1904

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d =tg ρ
1	a	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	c	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	r	0½	012	0 00	30 45'	0 00	30 45'	0 00	30 45'	0	0.5952	0.5952
5	m	01	011	"	49 58	"	49 58	"	49 58	"	1.1904	1.1904
6	q	02	021	"	67 13	"	67 13	"	67 13	"	2.3807	2.3807
7	e	10	101	90 00	63 29'	63 29'	0 00	63 29'	0 00	2.0050	0	2.0050
8	p	1½	112	59 18	49 23	45 04'	30 45'	40 44'	22 48	1.0025	0.5952	1.1659
9	s	1	111	"	66 47'	63 29'	49 58	52 12'	27 59	2.0050	1.1904	2.3318

Cuban.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d =tg ρ
1	c	{ 0 0∞	{ 001 010	{ — 0°00	{ 0°00 90 00	{ 0°00 "	{ 0°00 90 00	{ 0°00 "	{ 0°00 90 00	{ 0 "	{ 0 ∞	{ 0 ∞
2	e	{ 0½ 02 ∞2	{ 012 021 120	{ " " 26 34	{ 26 34 63 26 90 00	{ " " 90 00	{ 26 34 63 26 90 00	{ " " 26 34	{ 26 34 63 26 "	{ " " 0.5000	{ 0.5000 2.0000 ∞	{ 0.5000 2.0000 ∞

Cuspidin.

Monoklin.

a = 0.7196	lg a = 985709	lg a ₀ = 956875	lg p ₀ = 043125	a ₀ = 0.3705	p ₀ = 2.6993
c = 1.9424	lg c = 028834	lg b ₀ = 971166	lg q ₀ = 028832	b ₀ = 0.5184	q ₀ = 1.9423
μ = } 89° 31' 180 - β	lg h = } 999998 lg sin μ	lg e = } 792612 lg cos μ	lg p ₀ = 014293 q ₀	h = 0.9999	e = 0.0084

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ρ
1	c	0	001	90°00	0°29	0°29	0°00	0°29	0°00	0.0084	0	0.0084
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	l	∞	110	54 16	"	"	"	54 16	35 44	1.3997	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x: y)	y'	d' = tge
4	k	0 $\frac{1}{4}$	014	1° 00	25° 54	0° 29	25° 54	0° 26	25° 54	0° 0084	0° 4856	0° 4857
5	g	0 $\frac{1}{2}$	012	0 30	44 10	"	44 10	0 21	44 10	"	0° 9712	0° 9713
6	d	01	011	0 15	62 45	"	62 45	0 13	62 45	"	1° 9424	1° 9424
7	e	+10	101	90 00	69 44	69 44	0 00	69 44	0 00	2° 7078	0	2° 7078
8	h	+ $\frac{1}{3}$ 0	103	"	42 14	42 14	"	42 14	"	0° 9082	"	0° 9082
9	f	-10	101	90 00	69 37	69 37	"	69 37	"	2° 6910	"	2° 6910
10	n	+1	111	54 21	73 17	69 44	62 45	51 06	33 56	2° 7078	1° 9424	3° 3325
11	p	+ $\frac{1}{3}$	113	54 31	48 07	42 15	32 55	37 19	25 36	0° 9082	0° 6475	1° 1154
12	π	- $\frac{1}{3}$	113	54 00	47 46	41 43	"	36 48	25 47	0° 8914	"	1° 1107
13	ν	-1	111	54 10	73 14	69 37	62 45	50 55	34 05	2° 6910	1° 9424	3° 3188
14	s	-12	121	34 42	78 03	"	75 34	33 51	53 32	"	3° 8848	4° 7258
15	q	+ $\frac{2}{3}$ 1	233	42 57	69 21	61 03	62 45	39 36	43 14	1° 8081	1° 9424	2° 6537
16	t	+ $\frac{2}{3}$	211	70 14	80 07	79 31	"	68 00	19 27	5° 4072	"	5° 7455
17	m	- $\frac{2}{3}$	432	61 36	80 44	79 29	71 03	60 15	27 59	5° 3902	2° 9136	6° 1275

Cyanit.

Triklin.

$p_0 = 0.8062$	$\lambda = 86^\circ 36$	$a = 0.8991$	$\alpha = 90^\circ 23$	$x_0 = 0.1785$	$d = 0.1881$
$q_0 = 0.7132$	$\mu = 79^\circ 10$	$b = 1$	$\beta = 100^\circ 18$	$y_0 = 0.0593$	$\delta = 71^\circ 38$
$r_0 = 1$	$\nu = 73^\circ 38$	$c = 0.6968$	$\gamma = 106^\circ 01$	$h = 0.9821$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x: y)	y'	d' = tge
1	p	0	001	71° 39	10° 50	10° 18	3° 27	10° 17	3° 24	0° 1817	0° 0603	0° 1915
2	t	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	m	∞ 0	100	73 38	"	90 00	"	73 38	16 21	3° 4013	"	"
4	n	3 ∞	310	64 29	"	"	"	64 29	25 31	2° 0954	"	"
5	e	2 ∞	210	52 58	"	"	"	52 58	37 02	1° 3254	"	"
6	i	∞	110	46 00	"	"	"	46 00	43 59	1° 0358	"	"
7	b	∞ 2	120	30 30	"	"	"	30 30	59 30	0° 5890	"	"
8	k	∞ $\frac{1}{3}$	110	116 31	"	"	"	90 00	63 28	2° 0035	"	"
9	s	∞ 2	120	140 55	"	"	"	39 05	50 55	0° 8121	"	"
10	q	01	011	13 00	38 54	10 18	38 11	8 08	37 44	0° 1817	0° 7865	0° 8072
11	v	01	011	164 44	34 36	"	33 39	8 36	33 13	"	0° 6658	0° 6902
12	f	02	021	172 33	54 32	"	54 18	6 03	53 52	"	1° 3920	1° 4038
13	h	$\frac{2}{3}$ 0	203	105 43	19 05	18 25	5 21	18 21	5 05	0° 3331	0° 0938	0° 3461
14	l	$\frac{2}{3}$ 0	304	105 27	22 59	22 14	6 27	22 07	5 58	0° 4090	0° 1130	0° 4243
15	x	10	101	105 44	32 11	31 12	9 41	30 50	8 18	0° 6058	0° 1707	0° 6294

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
16	d	2	221	41° 39'	69° 16'	60° 21'	63° 09'	38° 26'	44° 20'	1'7570	1'9751	2'6434
17	o	11	111	47 29	39 26	31 12	29 03	27 54	25 24	0'6058	0'5554	0'8219
18	u	22	221	52 59	60 11	54 20	46 24	43 51	31 29	1'3935	1'0504	1'7450
19	r	1	111	145 58	47 16	31 12	41 53	24 16	37 29	0'6058	0'8969	1'0823
20	y	12	121	25 18	54 48	"	52 02	20 26	47 37	"	1'2816	1'4176
21	z	1/2 1	122	17 32	35 08	11 58	33 51	9 59	33 17	0'2121	0'6710	0'7037
22	w	21	211	70 54	55 03	54 20	17 57	52 58	10 42	1'3935	0'3242	1'4307
23	g	3/2 2	312	123 00	50 00	44 59	33 00	39 58	24 40	0'9996	0'6494	1'1920

Cyanochroit.

Monoklin.

$a = 0.7589$	$\lg a = 988018$	$\lg a_0 = 018191$	$\lg p_0 = 981809$	$a_0 = 1.5202$	$p_0 = 0.6578$
$c = 0.4992$	$\lg c = 969827$	$\lg b_0 = 030173$	$\lg q_0 = 968049$	$b_0 = 2.0031$	$q_0 = 0.4792$
$\mu = \left. \begin{matrix} 180 - \beta \\ 73^\circ 43' \end{matrix} \right\}$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 998222$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 944776$	$\lg \frac{p_0}{q_0} = 013760$	$h = 0.9599$	$e = 0.2804$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90° 00'	16° 17'	16° 17'	0° 00'	16° 17'	0° 00'	0'2921	0	0'2921
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	53 55'	"	"	90 00	53 55'	36 04'	1'3728	∞	"
5	o	01	011	30 20	30 02'	16 17	26 31'	14 39	25 36	0'2921	0'4992	0'5784
6	η	-10	101	90 00	21 28	21 28	0 00	21 28	0 00	0'3931	0	0'3931
7	e	-20	201	"	47 10	47 10	"	47 10	"	1'0539	"	1'0539
8	n	-1	111	38 13'	32 26	21 28	26 31'	19 23	24 55	0'3931	0'4992	0'6354
9	μ	-12	121	21 30	47 01	"	44 57	15 33	42 54	"	0'9984	1'0730

Danalith.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	d	101 ∞	011 110	0° 00' 45 00	45° 00' 90 00	0° 00' 90 00	45° 00' 90 00	0° 00' 45 00	45° 00' "	0 1'0000	1'0000 ∞	1'0000 ∞
2	$p\pi$	± 1	111	"	54 44	45 00	45 00	35 16	35 16	"	1'0000	1'4142

Danburit.

Rhombisch.

a = 0.9183	lg a = 996298	lg a ₀ = 001766	lg p ₀ = 998234	a ₀ = 1.0415	p ₀ = 0.9602
c = 0.8817	lg c = 994532	lg b ₀ = 005468	lg q ₀ = 994532	b ₀ = 1.1342	q ₀ = 0.8817

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d =tg ρ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	n	2∞	210	65 20'	"	"	90 00	65 20'	24 39'	2'1779'	∞	"
5	τ	$\frac{2}{3}\infty$	530	34 14'	"	"	"	34 14'	55 45'	0.6806	"	"
6	A	$\frac{2}{3}\infty$	850	60 09'	"	"	"	60 09'	29 51'	1.7423'	"	"
7	ξ	$\frac{2}{3}\infty$	320	58 31'	"	"	"	58 31'	31 28'	1.6334'	"	"
8	B	$\frac{1}{2}\infty$	10.7.0	57 16'	"	"	"	57 16'	32 44'	1.5556'	"	"
9	C	$\frac{2}{3}\infty$	750	56 44'	"	"	"	56 44'	33 15'	1.5246'	"	"
10	D	$\frac{2}{3}\infty$	970	54 28'	"	"	"	54 28'	35 32'	1.4001'	"	"
11	E	$\frac{2}{3}\infty$	540	53 42'	"	"	"	53 42'	36 18'	1.3612'	"	"
12	F	$\frac{2}{3}\infty$	650	52 34'	"	"	"	52 34'	37 25'	1.3067'	"	"
13	ρ	$\frac{2}{3}\infty$	760	51 47'	"	"	"	51 47'	38 12'	1.2705'	"	"
14	G	$\frac{1}{2}\infty$	11.10.0	50 08'	"	"	"	50 08'	39 51'	1.1978'	"	"
15	H	$\frac{1}{2}\infty$	15.14.0	49 24'	"	"	"	49 24'	40 36'	1.1667'	"	"
16	l	∞	110	47 26'	"	"	"	47 26'	42 33'	1.0887'	"	"
17	K	$\frac{2}{3}\infty$	19.20.0	45 58'	"	"	"	45 58'	44 01'	1.0345'	"	"
18	ν	$\frac{1}{2}\infty$	9.10.0	44 25'	"	"	"	44 25'	45 34'	0.9800'	"	"
19	m	$\frac{2}{3}\infty$	340	39 14'	"	"	"	39 14'	50 45'	0.8167'	"	"
20	μ	$\frac{2}{3}\infty$	350	33 09'	"	"	"	33 09'	56 50'	0.6534'	"	"
21	J	∞2	120	28 34'	"	"	"	28 34'	61 26'	0.5445'	"	"
22	k	∞3	130	19 57'	"	"	"	19 57'	70 03'	0.3630'	"	"
23	z	$0\frac{1}{3}$	013	0 00'	16 22'	0 00'	16 22'	0 00'	16 22'	0	0.2939	0.2939
24	ζ	$0\frac{2}{3}$	023	"	30 27'	"	30 27'	"	30 27'	"	0.5878	0.5878
25	d	01	011	"	41 24'	"	41 24'	"	41 24'	"	0.8817	0.8817
26	x	03	031	"	69 17'	"	69 17'	"	69 17'	"	2.6451	2.6451
27	t	10	101	90 00'	43 50'	43 50'	0 00'	43 50'	0 00'	0.9602	0	0.9602
28	w	20	201	"	62 29'	62 29'	"	62 29'	"	1.9203	"	1.9203
29	f	30	301	"	70 51'	70 51'	"	70 51'	"	2.8805	"	2.8805
30	g	$\frac{1}{2}0$	702	"	73 25'	73 25'	"	73 25'	"	3.3605	"	3.3605
31	p	40	401	"	75 24'	75 24'	"	75 24'	"	3.8406	"	3.8406
32	i	50	501	"	78 14'	78 14'	"	78 14'	"	4.8008	"	4.8008
33	h	$\frac{1}{2}10$	11.0.2	"	79 16'	79 16'	"	79 16'	"	5.2808	"	5.2808

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{y}$ (Prismen) (x : y)	y	d =tg ϱ
34	q	80	801	90°00	82°35	82°35	0°00	82°35	0°00	7'6812	0	7'6812
35	δ	21	211	65 20'	64 40'	62 29'	41 24'	55 13'	22 09'	1'9230	0'8817	2'1130
36	r	1	111	47 26'	52 30'	43 50'	"	35 45'	32 27'	0'9601'	"	1'3035
37	o	$\frac{1}{2}1$	122	28 34	45 06'	25 38'	"	19 48	38 29	0'4801	"	1'0039
38	λ	$1\frac{1}{2}$	212	65 20'	36 34'	43 50'	23 47'	41 18	17 38'	0'9601'	0'4408'	1'0565
39	e	12	121	28 34	63 31'	"	60 26'	25 20'	51 49'	"	1'7634	2'0078
40	s	13	131	19 57	70 26	"	69 17'	18 45'	62 20'	"	2'7067	2'8140
41	v	$\frac{1}{2}$	112	47 26'	33 05'	25 38'	23 47'	23 43	21 40'	0'4801	0'4408'	0'6518
42	u	$\frac{1}{4}$	114	"	18 03	13 30	12 26	13 11'	12 06	0'2400'	0'2204	0'3259
43	σ	$\frac{7}{4}\frac{5}{2}$	7'10'4	36 41	70 00'	58 39'	65 36	34 09	48 54'	1'6420	2'2042'	2'7486

Darapskit.

Monoklin.

a = 1'5258	lga = 018349	lga ₀ = 030762	lgp ₀ = 969238	a ₀ = 2'0306	p ₀ = 0'4925
c = 0'7514	lgc = 987587	lgb ₀ = 012413	lgq ₀ = 986474	b ₀ = 1'3309	q ₀ = 0'7324
$\mu = \left\{ \begin{array}{l} 77^{\circ}05 \\ 180 - \beta \end{array} \right.$	lgh = $\left\{ \begin{array}{l} \\ \lg \sin \mu \end{array} \right\}$ 998887	lge = $\left\{ \begin{array}{l} \\ \lg \cos \mu \end{array} \right\}$ 934934	lg $\frac{p_0}{q_0}$ = 982764	h = 0'9747	e = 0'2235

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x'}{y'}$ (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	12°55	12°55	0°00	12°55	0°00	0'2293	0	0'2293
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	90 00	0 00	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	33 55	90 00	"	90 00	33 55	56 05	0'6724	∞	"
5	q	01	011	16 58'	38 09	12 55	36 55'	10 23'	36 13	0'2293	0'7514	0'7856
6	e	$+\frac{3}{2}0$	302	90 00	44 38	44 38	0 00	44 38	0 00	0'9872	0	0'9872
7	r	$+10$	101	"	36 18	36 18	"	36 18	"	0'7346	"	0'7346
8	n	-10	$\bar{1}01$	90 00	15 26	$\bar{1}5 26$	"	15 26	"	0'2760	"	0'2760
9	d	-20	$\bar{2}01$	"	38 00	$\bar{3}8 00$	"	38 00	"	0'7813	"	0'7813
10	o	$+1$	111	44 21	46 25	36 18	36 55'	30 25'	31 12	0'7346	0'7514	1'0508
11	s	-1	$\bar{1}11$	20 10	38 40'	$\bar{1}5 25'$	"	12 26'	35 55	0'2760	"	0'8005
12	v	$+12$	121	26 03	59 07'	36 18	56 21'	22 08'	50 27'	0'7346	1'5028	1'6727

Datolith.

Monoklin.

$a = 0.6329$	$\lg a = 980134$	$\lg a_0 = 999891$	$\lg p_0 = 000109$	$a_0 = 0.9975$	$p_0 = 1.0025$
$c = 0.6345$	$\lg c = 980243$	$\lg b_0 = 019757$	$\lg q_0 = 980243$	$b_0 = 1.5760$	$q_0 = 0.6345$
$\mu = \left. \begin{matrix} 89^\circ 51' \\ 180 - \beta \end{matrix} \right\}$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 0$	$\lg e = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 741797$	$\lg \frac{p_0}{q_0} = 019866$	$h = 1.000$	$e = 0.0026$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	a	0	001	90° 00	0° 09	0° 09	0° 00	0° 09	0° 00	0.0026	0	0.0026
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	c	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	Ω	4∞	410	81 00	"	"	90 00	81 00	8 59	6.3200	∞	"
5	σ	2∞	210	72 26	"	"	"	72 26	17 33	3.1600	"	"
6	t	2/3∞	320	67 07	"	"	"	67 07	22 52	2.3700	"	"
7	g	∞	110	57 40	"	"	"	57 40	32 20	1.5800	"	"
8	h	∞2/3	340	49 50	"	"	"	49 50	40 09	1.1850	"	"
9	m	∞2	120	38 18	"	"	"	38 18	51 41	0.7900	"	"
10	S	∞4	140	21 33	"	"	"	21 33	68 27	0.3950	"	"
11	η	0 1/4	014	0 56	9 01	0 09	9 01	0 09	9 01	0.0026	0.1586	0.1586
12	Δ	0 1/2	012	0 28	17 36	"	17 36	0 08	17 36	"	0.3172	0.3173
13	e	0 2/3	023	0 21	22 55	"	22 55	"	22 55	"	0.4230	0.4230
14	M	01	011	0 14	32 24	"	32 24	0 08	32 24	"	0.6345	0.6345
15	r	0 2/2	032	0 10	43 35	"	43 35	0 06	43 35	"	0.9517	0.9517
16	o	.02	021	0 07	51 45	"	51 45	0 05	51 45	"	1.2690	1.2690
17	l	.03	031	0 04	62 17	"	62 17	0 04	62 17	"	1.9035	1.9035
18	p	+30	301	90 00	71 37	71 37	0 00	71 37	0 00	3.0100	0	3.0100
19	u	+20	201	"	63 31	63 31	"	63 31	"	2.0076	"	2.0076
20	v	+3/20	302	"	56 25	56 25	"	56 25	"	1.5063	"	1.5063
21	x	+10	101	"	45 09	45 09	"	45 09	"	1.0051	"	1.0051
22	f	+2/30	203	"	33 51	33 51	"	33 51	"	0.6709	"	0.6709
23	φ	+2/30	102	"	26 44	26 44	"	26 44	"	0.5038	"	0.5038
24	s	+1/30	103	"	18 36	18 36	"	18 36	"	0.3367	"	0.3367
25	ψ	+1/20	104	"	14 12	14 12	"	14 12	"	0.2532	"	0.2532
26	τ	-1/70	107	90 00	8 00	8 00	"	8 00	"	0.1406	"	0.1406
27	z	-1/40	104	"	13 55	13 55	"	13 55	"	0.2480	"	0.2480
28	Σ	-1/30	103	"	18 20	18 20	"	18 20	"	0.3315	"	0.3315
29	Π	-1/20	102	"	26 30	26 30	"	26 30	"	0.4986	"	0.4986
30	g	-2/30	203	"	33 39	33 39	"	33 39	"	0.6657	"	0.6657
31	ξ	-10	101	"	45 00	45 00	"	45 00	"	0.9999	"	0.9999
32	α	-20	201	"	63 27	63 27	"	63 27	"	2.0024	"	2.0024
33	e'	+4	441	57 41	78 06	76 00	68 30	55 47	31 32	4.0125	2.5380	4.7478

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \varrho$
34	γ	+2	221	57° 42	67° 10	63° 31	51° 45	51° 10	29° 30	2'0076	1'2690	2'3750
35	A	+1	111	57 44	49 55	45 09	32 23	40 19	24 06	1'0051	0'6345	1'1886
36	G	+ $\frac{4}{3}$	445	57 45	43 34	38 49	26 55	35 39	21 34	0'8046	0'5078	0'9513
37	w	+ $\frac{2}{3}$	223	57 46	38 25	33 51	22 55	31 42	19 21	0'6709	0'4230	0'7931
38	θ	+ $\frac{1}{2}$	112	57 48	30 46	26 44	17 36	25 39	15 49	0'5038	0'3172	0'5954
39	q	+ $\frac{1}{3}$	113	57 52	21 41	18 37	11 56	18 14	11 20	0'3368	0'2115	0.3977
40	r	- $\frac{1}{2}$	112	57 32	30 35	26 30	17 36	25 25	15 51	0'4986	0'3172	0'5910
41	Y	- $\frac{2}{3}$	223	57 34	38 16	33 39	22 55	30 31	19 24	0'6657	0'4230	0'7887
42	e	-1	111	57 36	49 49	45 00	32 23	40 10	24 10	0'9999	0'6345	1.1842
43	a	-2	221	57 38	67 07	63 27	51 45	51 06	29 33	2'0024	1'2690	2'3707
44	Q	+12	121	38 23	58 17	45 09	"	31 53	41 50	1'0051	"	1.6188
45	T	-1 $\frac{1}{2}$	212	72 24	46 22	45 00	17 36	43 37	12 38	0'9999	0'3172	1'0490
46	r	-13	131	27 50	65 05	45 09	62 17	25 03	53 19	1'0051	1'9035	2'1526
47	Z	+31	311	78 06	71 59	71 37	32 23	68 31	11 18	3'0101	0'6345	3'0762
48	f	+ $\frac{5}{2}$	522	75 48	68 52	68 16	"	64 43	13 13	2'5088	"	2'5879
49	W	+21	211	72 27	64 35	63 31	"	59 28	15 48	2'0076	"	2'1054
50	L	+ $\frac{3}{2}$	322	67 07	58 32	56 25	"	51 49	19 20	1'5063	"	1'6345
51	n	+ $\frac{1}{2}$	122	38 27	39 01	26 44	"	23 02	29 32	0'5038	"	0'8102
52	δ	+ $\frac{1}{4}$	144	71 45	34 20	14 12	"	12 04	31 36	0'2532	"	0'6832
53	G	- $\frac{1}{4}$	314	14'14	18 29	38 47	11 59	10 09	31 49	0'2122	"	0'6690
54	v	- $\frac{1}{2}$	122	38 10	38 54	26 30	"	22 50	29 35	0'4986	"	0'8070
55	δ	- $\frac{3}{4}$	344	49 44	44 28	36 50	"	32 19	26 55	0'7493	"	0'9819
56	k	- $\frac{3}{2}$	322	67 05	58 28	56 20	"	51 43	19 23	1'5011	"	1'6297
57	μ	-21	211	72 25	64 32	63 27	"	59 24	15 50	2'0024	"	2'1005
58	κ	- $\frac{5}{2}$	522	75 46	68 50	68 13	"	64 41	13 14	2'5037	"	2'5828
59	ω	-31	311	78 04	71 58	71 35	"	68 29	11 20	3'0050	"	3'0711
60	f	+24	241	38 20	72 50	63 31	68 30	36 21	48 32	2'0076	2'5380	3'2360
61	X	-26	261	27 44	76 55	63 27	75 17	26 58	59 33	2'0024	3'8070	4'3015
62	h	+32	321	67 08	72 59	71 37	51 45	61 46	21 48	3'0050	1'2690	3'2666
63	U	+ $\frac{3}{2}$	342	49 53	63 05	56 25	"	42 59	35 04	1'5063	"	1'9696
64	β	+ $\frac{1}{2}$	142	21 39	53 47	26 44	"	17 19	48 34	0'5038	"	1'3654
65	R	+ $\frac{1}{2}$	184	11 17	52 18	14 12	"	8 54	50 53	0'2532	"	1'2940
66	B	- $\frac{1}{2}$	142	21 27	53 44	26 30	"	17 09	48 38	0'4986	"	1'3634
67	i	- $\frac{3}{2}$	342	49 47	63 02	56 20	"	42 54	35 07	1'5011	"	1'9656
68	C	- $\frac{5}{2}$	542	63 07	70 23	68 13	"	57 10	25 12	2'5037	"	2'8069
69	Ψ	+ $\frac{1}{4}$	214	72 31	27 50	26 44	9 01	26 27	8 04	0'5038	0'1586	0'5282
70	H	- $\frac{1}{3}$	162	14 41	63 03	26 30	62 17	13 03	59 35	0'4986	1'9035	1'9677
71	V	- $\frac{1}{4}$	182	11 07	68 52	"	68 30	10 21	66 14	"	2'5380	2'5865
72	v	+ $\frac{3}{4}$	324	67 12	39 18	37 02	17 36	35 43	14 12	0'7545	0'3172	0'8185
73	w	+ $\frac{5}{4}$	524	75 49	52 19	51 28	"	50 07	11 11	1'2557	"	1'2951
74	A	+ $\frac{3}{2}$	312	78 06	56 59	56 25	"	55 08	9 57	1'5063	"	1'5393
75	D	+ $\frac{1}{4}$	124	38 35	22 05	14 12	"	13 34	17 05	0'2532	"	0'4059

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
76	B:	$+\frac{1}{8}\frac{1}{2}$	148	21° 57'	18° 53'	7° 17'	17° 36'	6° 57'	17° 28'	0'1279	0'3172	0'3421
77	D:	$+\frac{3}{2}\frac{3}{3}$	362	38 21'	67 36'	56 25'	62 17'	35 01'	46 28'	1'5063	1'9035	2'4273
78	J:	$-\frac{1}{4}\frac{3}{3}$	1'12'4	7 24'	62 29'	13 55'	"	6 35'	61 34'	0'2480	"	1'9196
79	O:	$-\frac{9}{4}\frac{3}{3}$	9'12'4	49 48'	71 16'	66 04'	"	46 20'	37 40'	2'2530	"	2'9495
80	F:	$-\frac{1}{5}\frac{2}{3}$	12'15'5	51 37'	71 56'	67 24'	"	48 11'	36 10'	2'4034	"	3'0659
81	E:	-43.	431	64 35'	77 18'	75 59'	"	61 47'	24 44'	4'0074	"	4'4365
82	N:	$+\frac{1}{3}\frac{2}{3}$	123	38 31'	28 24'	18 36'	22 55'	17 13'	21 51'	0'3367	0'4230	0'5406
83	I:	$+\frac{2}{3}\frac{1}{3}$	213	72 30'	35 07'	33 51'	11 56'	33 17'	9 57'	0'6709	0'2115	0'7035
84	ζ:	$-\frac{1}{12}\frac{4}{3}$	1'4'12	20 56'	12 45'	4 37'	"	4 31'	11 54'	0'0809	"	0'2265
85	K:	-45	451	51 38'	78 56'	75 59'	72 30'	39 18'	37 31'	4'0074	3'1725	5'1111
86	π:	$-\frac{1}{4}\frac{3}{2}$	164	14 36'	44 31'	13 55'	43 35'	10 11'	42 43'	0'2480	0'9517	0'9835
87	j:	$+\frac{1}{3}\frac{4}{3}$	243	38 25'	47 05'	33 51'	40 14'	27 07'	35 05'	0'6709	0'8460	1'0798
88	G:	-89	891	54 32'	84 11'	82 53'	80 04'	54 07'	35 15'	8'0173	5'7104	9.8430
89	χ:	$+\frac{2}{5}\frac{6}{3}$	235	46 40'	29 01'	21 58'	20 40'	21 10'	19 26'	0'4036	0'3807	0'5548
90	ℳ:	$+\frac{3}{14}\frac{6}{7}$	3'12'14	21 47'	30 21'	12 16'	28 32'	10 49'	27 59'	0'2174	0'5438	0'5857

Daviesit.

Rhombisch.

a = 0'7940	lga = 989982	lga ₀ = 022057	lg p ₀ = 977943	a ₀ = 1'6618	p ₀ = 0.6018
c = 0'4778	lg c = 967925	lg b ₀ = 032075	lg q ₀ = 967925	b ₀ = 2'0929	q ₀ = 0'4778

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	a	00	010	0° 00'	90 00'	"	90 00'	"	90 00'	"	∞	∞
3	m	∞	110	51 33'	"	90 00'	"	51 33'	38 27'	1'2595	"	"
4	f	01	011	0	25 32'	0	25 32'	0	25 32'	0	0'4778	0'4778
5	g	03	031	"	55 06'	"	55 06'	"	55 06'	"	1'4334	1'4334
6	h	05	051	"	67 17'	"	67 17'	"	67 17'	"	2'3890	2.3890
7	d	10	101	90 00'	31 02'	31 02'	0 00'	31 02'	0 00'	0'6018	0	0.6018
8	e	30	301	"	61 01'	61 01'	"	61 01'	"	1'8053	"	1'8053
9	v	2	221	51 33'	56 57'	50 17'	43 42'	41 02'	31 25'	1'2036	0'9556	1.5368
10	s	12	121	32 12'	48 28'	31 02'	"	23 31'	39 18'	0'6018	"	1'1293
11	t	21	211	68 21'	52 19'	50 17'	25 32'	47 21'	16 59'	1'2036	0'4778	1'2949
12	r	25	251	26 44'	69 30'	"	67 17'	24 55'	56 46'	"	2'3890	2'6751

Descloizit.

Rhombisch.

a = 0'6367	lg a = 980393	lg a ₀ = 989835	lg p ₀ = 010165	a ₀ = 0'7913	p ₀ = 1'2637
c = 0'8046	lg c = 990558	lg b ₀ = 009442	lg q ₀ = 990558	b ₀ = 1'2429	q ₀ = 0'8046

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d = tg ρ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	n	5∞	510	82 44'	"	"	90 00	82 44'	7 15'	7'8530	∞	"
5	m	∞	110	57 31	"	"	"	57 31	32 29	1'5706	"	"
6	l	∞3	130	27 38	"	"	"	27 38	62 22	0'5235	"	"
7	d	0½	012	0 00	21 55	0 00	21 55	0 00	21 55	0	0'4023	0'4023
8	u	01	011	"	38 49	"	38 49	"	38 49	"	0'8046	0'8046
9	v	02	021	"	58 08'	"	58 08'	"	58 08'	"	1'6092	1'6092
10	e	½0	102	90 00	32 17	32 17	0 00	32 17	0 00	0'6318	0	0'6318
11	f	20	201	"	21 37	21 37	"	21 37	"	2'5274	"	2'5274
12	o	1	111	57 31	56 16'	51 38'	38 49	44 33'	26 32	1'2637	0'8046	1'4981
13	t	1/10	1'1'10	"	8 31	7 12	4 36	7 11	4 34	0'1264	0'0804'	0'1498
14	ε	21	211	72 20'	69 20'	68 25	38 49	63 05	16 29'	2'5274	0'8046	2'6524
15	h	1/2 3/2	132	27 38	53 43	32 17	50 21'	21 57'	45 34'	0'6318'	1'2069	1'3623
16	w	1/4 3/4	134	"	34 15'	17 32	31 06'	15 08	29 55	0'3159	0'6034	0'6812
17	q	7/2 4	782	53 57'	79 38	77 15'	72 44'	52 41'	35 22	4'4230	3'2184	5'4700
18	i	64	641	67 00	83 05	82 29	"	66 02	22 49'	7'5823	"	8'2370
19	k	86	861	64 28'	84 54	84 21'	78 18	64 00'	25 25	10'110	4'8275'	1'1203

Desmin.

Rhombisch.

a = 0'928	lg a = 996755	lg a ₀ = 008903	lg p ₀ = 991097	a ₀ = 1'2275	p ₀ = 0'8146
c = 0'756	lg c = 987852	lg b ₀ = 012148	lg q ₀ = 987852	b ₀ = 1'3228	q ₀ = 0'756

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d = tg ρ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
4	m	∞	110	47° 08'	90° 00'	90° 00'	90° 00'	47° 08'	42° 51'	1'0776	∞	∞
5	d	$0\frac{3}{2}$	032	0 00	48 35'	0 00	48 35'	0 00	48 35'	0	1'1340	1'1340
6	e	10	101	90 00	39 10	39 10	0 00	39 10	0 00	0'8146	0	0'8146
7	r	1	111	47 08'	48 01	"	37 05'	33 01	30 22'	"	0'7560	1'1114
8	s	$1\frac{5}{2}$	252	23 19	64 05	"	62 07	20 51'	55 41'	"	1'8900	2'0580
9	t	13	131	19 45'	67 27'	"	66 12'	18 11'	60 22	"	2'2680	2'4098

Diadelphit.

Hexagonal. Rhomboedrisch-hemiedrisch.

c = 0'8885	lgc = 994866	lga ₀ = 028990	lgp ₀ = 977257	a ₀ = 1'9494	p ₀ = 0'5923	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	q	$+\frac{3}{2}$	33 $\bar{6}$ 4	30° 00'	37 34'	21 02'	33 40'	17 45	31 52'	0'3847	0'6663	0'7694
3	r	+1	11 $\bar{2}$ 1	"	45 44	27 09'	41 37	20 59	38 19'	0'5129	0'8884	1'0257
4	s	+2	2241	"	64 01	45 44	60 38	26 42'	51 07'	1'0259	1'7769	2'0519
5	t	$+\frac{7}{3}$	7'7'14'3	"	67 19'	50 07	64 15	27 28'	53 02'	1'1969	2'0730	2'3938

Diamant.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} — \\ 0° 00' \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$
2	a	$\left\{ \begin{array}{l} 0\frac{1}{3} \\ 03 \\ \infty 3 \end{array} \right.$	$\left\{ \begin{array}{l} 013 \\ 031 \\ 130 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 18 26 \end{array} \right.$	$\left\{ \begin{array}{l} 18 26 \\ 71 34 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 18 26 \\ 71 34 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 18 26 \end{array} \right.$	$\left\{ \begin{array}{l} 18 26 \\ 71 34 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 0'3333 \end{array} \right.$	$\left\{ \begin{array}{l} 0'3333 \\ 3'0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0'3333 \\ 3'0000 \\ \infty \end{array} \right.$
3	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	$\left\{ \begin{array}{l} 012 \\ 021 \\ 120 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ " \\ 0'5000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'5000 \\ 2'0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0'5000 \\ 2'0000 \\ \infty \end{array} \right.$
4	b	$\left\{ \begin{array}{l} 0\frac{2}{3} \\ 03 \\ \infty \frac{2}{3} \end{array} \right.$	$\left\{ \begin{array}{l} 023 \\ 032 \\ 230 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 33 41' \end{array} \right.$	$\left\{ \begin{array}{l} 33 41' \\ 56 18' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 33 41' \\ 56 18' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 33 41' \end{array} \right.$	$\left\{ \begin{array}{l} 33 41' \\ 56 18' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ " \\ 0'6667 \end{array} \right.$	$\left\{ \begin{array}{l} 0'6667 \\ 1'5000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0'6667 \\ 1'5000 \\ \infty \end{array} \right.$
5	i	$\left\{ \begin{array}{l} 0\frac{3}{4} \\ 04 \\ \infty \frac{3}{4} \end{array} \right.$	$\left\{ \begin{array}{l} 034 \\ 043 \\ 340 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 36 52 \end{array} \right.$	$\left\{ \begin{array}{l} 36 52 \\ 53 08 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 36 52 \\ 53 08 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 36 52 \end{array} \right.$	$\left\{ \begin{array}{l} 36 52 \\ 53 08 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ " \\ 0'7500 \end{array} \right.$	$\left\{ \begin{array}{l} 0'7500 \\ 1'3333 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0'7500 \\ 1'3333 \\ \infty \end{array} \right.$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ		
6	A	$\left\{ \begin{array}{l} 0\frac{10}{11} \\ 0\frac{10}{10} \\ \infty\frac{10}{10} \end{array} \right.$	0'10'11 0'11'10 10'11'0	0°00 " 47 43' 42 16'	42°16' 47 43' 90 00	0°00 " 47 43' 90 00	42°16' 47 43' 90 00	0°00 " 47 43' 42 16'	42°16' 47 43' " 0°00	0 " 1'1000 0'9091	0'9091 1'1000 ∞	0'9091 1'1000 ∞		
		7	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011 110	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	0 1'0000	1'0000 ∞	1'0000 ∞	
				8	l	$\left\{ \begin{array}{l} \frac{1}{5} \\ 15 \end{array} \right.$	115 151	" 15 47' 11 18'	15 47' 78 54	11 18' 45 00	11 18' 78 41'	11 06 " 74 12'	0'2000 1'0000	0'2000 5'0000
9	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112 121			45 00 26 34	35 16 65 54'	26 34 45 00	26 34 63 26	24 05' " 54 44	0'5000 1'0000	0'5000 2'0000	0'7071 2'2360	
		10	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
11	u	$\left\{ \begin{array}{l} \frac{1}{2}1 \\ 2 \end{array} \right.$	122 221	26 34 45 00	48 11' 70 31'	26 34 63 26	" 63 26	19 28 41 48'	41 48' " 2'0000	0'5000 2'0000	" 2'0000	1'1180 2'8284		
		12	x	$\left\{ \begin{array}{l} \frac{1}{3}\frac{2}{3} \\ \frac{1}{2}\frac{3}{2} \\ 23 \end{array} \right.$	123 132 231	26 34 18 26 33 41'	36 42 57 41' 74 30	18 26 26 34 63 26	33 41' 56 18' 71 34	15 30 " 53 18 32 18'	32 18' 53 18 " 2'0000	0'3333 0'5000 2'0000	0'6667 1'5000 3'0000	0'7453 1'5811 3'6055
13	w			$\left\{ \begin{array}{l} \frac{1}{4}\frac{3}{4} \\ \frac{1}{3}\frac{4}{3} \\ 34 \end{array} \right.$	134 143 341	18 26 14 02 36 52	38 19' 53 57' 78 41'	14 02 18 26 71 34	36 52 53 08 75 58	11 18' " 51 40 36 02'	36 02' 51 40 " 3'0000	0'2500 0'3333 3'0000	0'7500 1'3333 4'0000	0'7906 1'3743 5'0000
				14	Σ	$\left\{ \begin{array}{l} \frac{1}{5}\frac{4}{5} \\ \frac{1}{4}\frac{5}{4} \\ 45 \end{array} \right.$	145 154 451	14 02 11 18' 38 39'	39 30' 51 53 81 07'	11 18' 14 02 75 58	38 39' 51 20' 78 41'	8 52' " 50 29' 38 07	38 06' 50 29' " 4'0000	0'2000 0'2500 4'0000
15	Φ	$\left\{ \begin{array}{l} \frac{1}{6}\frac{5}{6} \\ \frac{1}{5}\frac{6}{5} \\ 56 \end{array} \right.$	156 165 561			11 18' 9 27' 39 48'	40 21' 50 35 82 42	9 27' 11 18' 78 41'	39 48' 50 11' 80 32'	7 18 " 49 38' 39 25	39 25 49 38' " 5'0000	0'1667 0'2000 5'0000	0'8333 1'2000 6'0000	0'8498 1'2165 7'8102

Diaphorit.

Rhombisch.

a = 0'4919	lg a = 969188	lg a ₀ = 982589	lg p ₀ = 017411	a ₀ = 0'6697	p ₀ = 1'4932
c = 0'7345	lg c = 986599	lg b ₀ = 013401	lg q ₀ = 986599	b ₀ = 1'3615	q ₀ = 0'7345

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	b	∞ 0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	t	3 ∞	310	80 41'	"	"	90 00	80 41'	9 18'	6'0987	∞	"

N _{o.}	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
4	m	∞	110	63° 48'	90° 00'	90° 00'	90° 00'	63° 48'	26° 11'	2° 0329	∞	∞
5	n	$\infty 2$	120	45 28	"	"	"	45 28	44 32	1° 0164'	"	"
6	k	$\infty \frac{1}{5} 2$	5' 12° 0	40 16	"	"	"	40 16	49 44	0° 8470'	"	"
7	π	$\infty 3$	130	34 07'	"	"	"	34 07'	55 52'	0° 6776'	"	"
8	ϱ	$\infty 5$	150	22 07'	"	"	"	22 07'	67 52'	0° 4066'	"	"
9	α	$\infty 11$	1' 11° 0	10 28	"	"	"	10 28	79 32	0° 1848	"	"
10	u	$0 \frac{1}{2}$	012	0 00	20 10	0 00	20 10	0 00	20 10	0	0° 3672	0° 3672
11	r	01	011	"	36 18	"	36 18	"	36 18	"	0° 7345	0° 7345
12	v	$0 \frac{3}{2}$	032	"	47 46'	"	47 46'	"	47 46'	"	1° 1017	1° 1017
13	q	$0 \frac{5}{3}$	053	"	50 45'	"	50 45'	"	50 45'	"	1° 2242	1° 2242
14	w	02	021	"	55 45'	"	55 45'	"	55 45'	"	1° 4690	1° 4690
15	ψ	$\frac{1}{2} 0$	102	90 00	36 44'	90 00	36 44'	90 00	36 44'	0° 7465	0	0° 7465
16	x	10	101	"	56 11'	"	56 11'	"	56 11'	1° 4931	"	1° 4931
17	y	$1 \frac{1}{2}$	112	63 48'	39 36	36 44'	20 10	35 01'	16 24	0° 7466	0° 3672	0° 8320
18	i	$\frac{1}{4}$	114	"	22 35'	20 28	10 24'	20 09'	9 45'	0° 3733	0° 1836	0° 4160
19	d	$\frac{1}{4} 1$	144	26 56'	39 29	"	36 18	16 45	34 32	"	0° 7345	0° 8239
20	ζ	$\frac{1}{2} 1$	122	45 28	46 19'	36 44'	"	31 02	30 29	0° 7466	"	1° 0473
21	ω	$\frac{3}{4} \frac{1}{4}$	314	80 41'	48 37	48 14	10 24'	47 46	6 58'	1° 1199	0° 1836	1° 1348
22	o	$\frac{1}{4} \frac{3}{4}$	134	34 07'	33 38'	20 28	28 51	18 06'	27 18	0° 3733	0° 5509	0° 6654
23	e	$\frac{5}{4} \frac{3}{4}$	534	73 33'	62 48	61 49	"	58 33	14 35	1° 8665	"	1° 9460

Diaspor.

Rhombisch.

a = 0° 9372	lg a = 997183	lg a ₀ = 019086	lg p ₀ = 980914	a ₀ = 1° 5519	p ₀ = 0° 6444
c = 0° 6039	lg c = 978097	lg b ₀ = 021903	lg q ₀ = 978097	b ₀ = 1° 6559	q ₀ = 0° 6039

N _{o.}	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	0∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	"	0	"
4	M	2∞	210	64 53'	"	"	90 00	64 53'	25 06'	2° 1340'	∞	"
5	y	∞	110	46 51'	"	"	"	46 51'	43 08'	1° 0670'	"	"
6	K	$\infty \frac{3}{2}$	230	35 25'	"	"	"	35 25'	54 34'	0° 7113'	"	"
7	l	$\infty 2$	120	28 05	"	"	"	28 05	61 55	0° 5335	"	"
8	z	$\infty 3$	130	19 35	"	"	"	19 35	70 25	0° 3557	"	"
9	n	$\infty 5$	150	12 03	"	"	"	12 03	77 57	0° 2134	"	"
10	f	$0 \frac{1}{2}$	012	0 00	16 48	0 00	16 48	0 00	16 48	0	0° 3019'	0° 3019'
11	e	01	011	"	31 07'	"	31 07'	"	31 07'	"	0° 6039	0° 6039
12	m	$0 \frac{3}{2}$	098	"	34 11'	"	34 11'	"	34 11'	"	0° 6794	0° 6794

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
13	w	10	101	90° 00	32° 48	32° 48	0° 00	32° 48	0° 00	0'6444	0	0'6444
14	p	1	111	46 51'	41 27	"	31 07'	28 53	26 55	"	0'6039	0'8831
15	s	1½	212	64 53'	35 26	"	16 48	31 40	14 14'	"	0'3019	0'7116
16	q	1¾	232	35 25'	48 01'	"	42 10'	25 31'	37 17	"	0'9058	1.1117
17	x	1⅓	133	19 35	32 39'	12 07'	31 07'	10 25	30 33'	0'2099	0'6039	0'6410
18	v	1½	122	28 05	34 23'	17 51'	"	15 25	29 53'	0'3222	"	0'6845
19	u	¾	344	38 40	37 43	25 47'	"	22 28'	28 32	0'4833	"	0'7735
20	t	21	211	64 53'	54 54'	52 11'	"	47 48'	20 19	1'2887	"	1'4232
21	r	1¼	10'14	84 38'	58 17	58 10	8 35	57 53	4 33	1'6109	0'1509	1'6180

Dickinsonit.

Monoklin.

a = 1'7320	lg a = 023855	lg a ₀ = 016005	lg p ₀ = 983995	a ₀ = 1'4455	p ₀ = 0'6917
c = 1'1981	lg c = 007850	lg b ₀ = 992150	lg q ₀ = 002240	b ₀ = 0'8346	q ₀ = 1'0529
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 61^\circ 30$	lg h = 994390	lg e = 967866	lg $\frac{p_0}{q_0}$ = 981755	h = 0'8788	e = 0'4772

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90° 00	28° 30	28° 30	0° 00	28° 30	0° 00	0'5429'	0	0'5429'
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	n	05	051	5 10'	80 33'	28 30	80 31'	5 06'	79 14'	0'5429'	5'9906	6'0151
5	x	30	301	90 00	71 00	71 00	0 00	71 00	0 00	2'9042	0	2'9042
6	γ	—¼0	103	"	15 40'	15 40'	"	15 40'	"	0'2806	"	0'2806
7	p	—1	111	11 31	50 43'	13 43	50 09	8 53'	49 20	0'2440'	1'1981	1'2227
8	s	—2	221	23 17	69 01'	45 52'	67 21	21 39'	59 03'	1'0311'	2'3962	2'6087

Dietzeit.

Monoklin.

a = 1'3826	lg a = 014069	lg a ₀ = 016228	lg p ₀ = 983772	a ₀ = 1'4530	p ₀ = 0'6882
c = 0'9515	lg c = 997841	lg b ₀ = 002159	lg q ₀ = 996007	b ₀ = 1'0510	q ₀ = 0'9122
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 73^\circ 28$	lg h = 998166	lg e = 945419	lg $\frac{p_0}{q_0}$ = 987765	h = 0'9587	e = 0'2846

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90° 00	16° 32	16° 32	0° 00	16° 32	0° 00	0'2969	0	0'2969
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
4	m	∞	110	37° 02	90° 00	90° 00	90° 00	37° 02	52° 58	0·7545	∞	∞
5	l	2 ∞	210	56 28	"	"	"	56 28	33 32	1·5091	"	"
6	r	-10	101	90 00	22 50	22 50	0 00	22 50	0 00	0·4210	0	0·4210
7	s	- $\frac{2}{3}$	223	15 59	33 25	10 18	32 23	8 43	31 58	0·1817	0·6343	0·6598
8	o	-2	221	30 54	65 44	48 43	62 17	27 55	51 28	1·1398	1·9030	2·2178

Dioptas.

Hexagonal. Rhomboedrisch-tetartoedrisch.

$c = 1·0622$	$lg c = 002620$	$lg a_0 = 021236$	$lg p_0 = 985011$	$a_0 = 1·6307$	$p_0 = 0·7081$	(G_2)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $tg \varrho$
1	a	$\infty 0$	1010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	ϑ	4 ∞	4150	10 53'	"	90 00	"	10 53'	79 06'	0·1924	"	"
3	ζ	$\frac{2}{3}\infty$	5270	16 06	"	"	"	16 06	73 54	0·2887	"	"
4	τ	$\frac{3}{2}\infty$	3250	23 25	"	"	"	23 25	66 35	0·4330	"	"
5	δ	$-\frac{1}{2}$	1122	30 00	31 31	17 03	27 58'	15 09	26 55	0·3066	0·5311	0·6132
6	p: κ	± 1	1121	"	50 48'	31 31	46 43'	22 48	42 09'	0·6132	1·0622	1·2265
7	μ	$+\frac{17}{20}$	20·17·37·20	27 19	48 38	27 32	45 15'	20 09	41 49'	0·5212	1·0091	1·1357
8	λ	$+\frac{11}{16}$	19·16·35·16	27 10	53 20	31 31	50 04'	21 29	45 31'	0·6133	1·1950	1·3431
9	A:	$+\frac{13}{10}$	13·10·23·10	25 41'	54 44'	"	51 53	20 44	47 22'	"	1·2746	1·4145
10	C:	$+\frac{3}{2}$	3252	23 25	57 03'	"	54 46'	19 29	50 22	"	1·4163	1·5434
11	g:	-21	2131	19 06'	61 54'	"	60 32'	16 47	56 28	"	1·7703	1·8735
12	H: Γ	$\pm \frac{5}{2}$	5272	16 06	65 40	"	64 47'	14 38	61 05'	"	2·1244	2·2111
13	G:	$+\frac{11}{2}$	11·2·13·2	8 13	76 53	"	76 45'	8 00	74 34	"	4·2487	4·2926
14	Z:	$+\frac{23}{2}$	23·2·25·2	4 07'	83 18'	"	83 17'	4 06	82 08	"	8·4974	8·5196
15	e:	$-2\frac{1}{2}$	4152	10 53'	58 21	17 03	57 53	9 15'	56 43	0·3066	1·5932	1·6225
16	Δ	$+\frac{2}{3}$	4156	"	28 24'	5 50	27 58'	5 09'	27 51	0·1022	0·5312	0·5408

Dolerophanit.

Monoklin.

a = 1'3042	lg a = 011533	lg a ₀ = 003255	lg p ₀ = 996745	a ₀ = 1'0778	p ₀ = 0'9278
c = 1'2100	lg c = 008278	lg b ₀ = 991722	lg q ₀ = 006043	b ₀ = 0'8265	q ₀ = 1'1493
$\mu_{180-\beta} = 71^{\circ}46'$	$\lg h = 997765$	$\lg e = 949519$	$\lg \frac{p_0}{q_0} = 990702$	h = 0'9498	e = 0'3127

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tg ϱ
1	d	o	001	90°00	18°13'	18°13'	0°00	18°13'	0°00	0'3292	o	0'3292
2	C	∞∞	010	0 00	90 00	0 00	90 00	0 00	90 00	∞	∞	∞
3	g	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	t	∞1	110	38 55	"	"	90 00	38 55	51 05	0'8073'	∞	"
5	s	01	011	15 13'	51 26	18 13'	50 26	11 51	48 48'	0'3292	1'2100	1'2540
6	B	+ $\frac{1}{3}$ o	103	90 00	33 13	33 13	0 00	33 13	0 00	0'6547'	o	0'6547'
7	e	+10	101	"	52 33'	52 33'	"	52 33'	"	1'3060	"	1'3060
8	f	+30	301	"	72 56'	72 56'	"	72 56'	"	3'2595'	"	3'2595'
9	A	-10	101	90 00	32 55'	32 55'	"	32 55'	"	0'6476	"	0'6476
10	h	- $\frac{1}{3}$ o	110'3	"	72 54'	72 54'	"	72 54'	"	3'2523'	"	3'2523'
11	q	+ $\frac{1}{2}$	112	53 30	45 29	39 16	31 10'	34 58'	25 06	0'8176	0'6050	1'0171
12	p	- $\frac{1}{4}$	114	15 42	17 26'	4 51'	16 50	4 39	16 46'	0'0850	0'3025	0'3142
13	r	- $\frac{1}{2}$	112	14 44'	32 02	9 02'	31 10'	7 45'	30 51'	0'1592	0'6050	0'6256
14	n	- $\frac{2}{3}$ 1	233	14 54	51 23	17 51	50 25'	11 35'	49 02	0'3219	1'2100	1'2521
15	?r	- $\frac{1}{3}$ $\frac{8}{3}$	11'8'3	45 13'	77 39'	72 54'	72 47'	43 55'	43 28'	3'2524	3'2266'	4'5813
16	?m	- $\frac{7}{9}$ $\frac{2}{3}$	769	28 05'	42 26'	23 17'	38 53'	18 31'	36 32'	0'4305	0'8066'	0'9143

Dolomit.

Hexagonal. Rhomboedrisch-tetartoedrisch.

c = 0'8322	lg c = 992023	lg a ₀ = 031833	lg p ₀ = 974414	a ₀ = 2'0812	p ₀ = 0'5548	(G ₂)
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N ^o .	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	θ	4∞	4150	10 53'	"	"	"	10 53'	79 06'	0'1924	"	"
5	h	$\frac{4}{3}$ o	4043	0 00	36 29'	0 00	36 29'	0 00	36 29'	o	0'7397	0'7397
6	a	40	4041	"	65 44'	"	65 44'	"	65 44'	"	2'2192	2'2192

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x : y)	y	d =tg ϱ
7	γ	80	8081	0°00	77°18	0°00	77°18	0°00	77°18	0	4'4384	4'4384
8	δ	90	9091	"	78 40'	"	78 40'	"	78 40'	"	4'9932	4'9932
9	ρ	$-\frac{1}{10}$	1'1'2'10	30 00	5 29'	2 37'	4 45'	2 44'	4 45'	0'0480	0'0832	0'0961
10	e'	$+\frac{2}{5}$	2245	"	21 01'	10 53	18 24'	10 20	18 06	0'1922	0'3329	0'3844
11	δ'	$-\frac{1}{2}$	1122	"	25 40	13 30'	22 35'	12 30'	22 01'	0'2402	0'4161	0'4805
12	g'	$+\frac{4}{7}$	4487	"	28 46'	15 21	25 26	13 55'	24 38	0'2745	0'4755	0'5491
13	η'	$-\frac{4}{3}$	4485	"	37 33	21 01'	33 39	17 44'	31 51'	0'3844	0'6658	0'7688
14	p'	$+\frac{1}{1}$	1121	"	43 51'	25 40	39 46	20 16	36 52'	0'4805	0'8322	0'9610
15	ρ'	$-\frac{2}{3}$	3362	"	55 15	35 47	51 18	24 15'	45 22	0'7207	1'2483	1'4414
16	φ'	-2	2241	"	62 30'	43 51'	59 00	26 20	50 12	0'9609	1'6644	1'9219
17	ρ	+3	3361	"	70 52	55 15	68 10'	28 11'	54 54'	1'4414	2'4966	2'8829
18	m'	+4	4481	"	75 25	62 30'	73 17	28 56'	56 56'	1'9219	3'3288	3'8438
19	Π	-8	8'8'16'1	"	82 35'	75 25	81 27'	29 43'	59 11	3'8438	6'6577	7'6876
20	t'	$+\frac{16}{16}$	16'16'32'1	"	86 16'	82 35'	85 42'	29 56	59 47'	7'6876	13'315	15'375
21	F:	+21	2131	19 06'	55 44	25 40	54 12'	15 41'	51 20'	0'4805	1'3870	1'4679
22	K:	+41	4151	10 53'	68 32	"	68 10'	10 08'	66 02'	"	2'4966	2'5424
23	N:	$+\frac{1}{2}$	11'2'13'2	8 13	73 26'	"	73 17	7 52	71 34	"	3'3288	3'3632
24	P:	+71	7181	6 35	76 34'	"	76 29	6 24'	75 44'	"	4'1610	4'1886
25	a:	$+\frac{8}{5}$	8'2'10'5	10 53'	45 29	10 53	44 57'	7 44'	44 26'	0'1922	0'9986	1'0170
26	q:	-82	8'2'10'1	"	78 52'	43 51'	78 40'	10 41	74 28'	0'9610	4'9932	5'0849
27	\mathcal{M} :	$+\frac{11}{2}$	11'8'19'2	24 47'	77 41'	62 30'	76 29	24 11	62 29'	1'9219	4'1610	4'5834
28	\mathcal{S} :	+74	7'4'11'1	21 03	79 25	"	78 40'	20 40'	66 33	"	4'9932	5'3502
29	\mathcal{R} :	$+\frac{16}{4}$	16'4'20'1	10 53'	84 23	"	84 17	10 50'	77 45'	"	9'9864	10'170
30	\mathcal{I} :	-20'8	20'8'28'1	16 06	85 52'	75 25	85 42'	16 03'	73 23'	3'8438	13'315	13'859
31	i:	-32'8	32'8'40'1	10 53'	87 11	"	87 08	10 53	78 45'	"	19'973	20'340
32	ρ z:	-20'4	20'4'24'1	8 57	85 22'	62 30'	85 19	8 55	79 56	1'9219	12'205	12'356
33	d:	$-\frac{13}{2}$	13'1'14'2	3 40	75 04'	13 30'	75 03	3 33	74 38'	0'2402	3'7449	3'7526
34	ρ i:	-61	6'1'71	7 35'	74 38	25 40	74 30	7 19	72 54	0'4805	3'6062	3'6381
35	A:	$-\frac{28}{5}$	28'4'32'5	6 35	73 23	21 01'	73 17	6 21'	72 10	0'3843	3'3288	3'3509

Dufrenoyzit.

Rhombisch.

a = 0'938	lg a = 997220	lg a ₀ = 978722	lg p ₀ = 021278	a ₀ = 0'6127	p ₀ = 1'6322
c = 1'531	lg c = 018498	lg b ₀ = 981502	lg q ₀ = 018498	b ₀ = 0'6532	q ₀ = 1'5310

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
4	m	∞	110	46° 50	90° 00	90° 00	90° 00	46° 50	43° 10	1'0661	∞	∞
5	l	$0\frac{1}{2}$	012	0 00	37 26	0 00	37 26	0 00	37 26	0	0'7655	0'7655
6	k	$0\frac{2}{3}$	023	"	45 35	"	45 35	"	45 35	"	1'0206	1'0206
7	i	01	011	"	56 51	"	56 51	"	56 51	"	1.5310	1'5310
8	h	$\frac{1}{4}0$	104	90 00	22 12	22 12	0 00	22 12	0 00	0'4080	0	0'4080
9	g	$\frac{1}{2}0$	102	"	39 13	39 13	"	39 13	"	0'8161	"	0'8161
10	f	$\frac{2}{3}0$	203	"	47 25	47 25	"	47 25	"	1'0881	"	1'0881
11	d	10	101	"	58 30	58 30	"	58 30	"	1'6322	"	1'6322
12	e	20	201	"	72 58	72 58	"	72 58	"	3'2644	"	3'2644
13	n	$\frac{2}{3}$	223	46 50	56 10	47 25	45 35	37 17	34 38	1'0881	1'0206	1'4919
14	q	1	111	"	65 55	58 30	56 51	41 45	38 39	1'6322	1'5310	2'2379
15	p	2	221	"	77 24	72 58	71 55	45 23	41 53	3'2644	3'0620	4'4758

Durangit.

Monoklin.

a = 0'7715	lg a = 988734	lg a ₀ = 997231	lg p ₀ = 002769	a ₀ = 0'9382	p ₀ = 1'0658
c = 0'8223	lg c = 991503	lg b ₀ = 008497	lg q ₀ = 987154	b ₀ = 1'2161	q ₀ = 0'7439
$\mu_{180-\beta} = \left. \begin{matrix} \\ \end{matrix} \right\} 64^\circ 47$	$\lg h = \left. \begin{matrix} \\ \end{matrix} \right\} 995651$	$\lg e = \left. \begin{matrix} \\ \end{matrix} \right\} 962945$	$\lg \frac{p_0}{q_0} = 015615$	h = 0'9047	e = 0'4260

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	b	∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	a	∞	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	m	∞	110	55 05	"	"	90 00	55 05	34 55	1'4326	∞	"
4	e	02	021	15 58	59 41	25 13	58 42	13 45	56 06	0'4709	1'6446	1'7106
5	p	+1	111	63 30	61 30	58 46	39 26	51 51	23 05	1'6489	0'8223	1'8426
6	k	$-\frac{1}{2}$	112	16 02	23 09	6 44	22 21	6 14	22 12	0'1181	0'4111	0'4278
7	π	-1	111	40 42	47 19	35 16	39 26	38 38	33 52	0'7072	0'8223	1'0846

Dysanalyt.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	$\left\{ \begin{matrix} - \\ 0^\circ 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$

Edingtonit.

Tetragonal. Domatisch-hemiedrisch.

$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 0.953$	$\lg c = 997909$	$\lg a_o = 002091$	$a_o = 1.0493$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	a	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	s	0 $\frac{1}{3}$	013	"	17 36	"	17 36	"	17 36	"	0.3176	0.3176
3	n	0 $\frac{1}{2}$	012	"	25 28	"	25 28	"	25 28	"	0.4765	0.4765
4	e	01	011	"	43 37	"	43 37	"	43 37	"	0.9530	0.9530

Eis.

Hexagonal.

$c = 2.4294$	$\lg c = 0.38550$	$\lg a_o = 985306$	$\lg p_o = 020941$	$a_o = 0.7130$	$p_o = 1.6196$	(G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	n	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	r	$\frac{1}{2} 0$	1012	0 00	39 00	0 00	39 00	0 00	39 00	0	0.8098	0.8098
5	s	10	1011	"	58 18	"	58 18	"	58 18	"	1.6196	1.6196
6	t	40	4011	"	81 13	"	81 13	"	81 13	"	6.4784	6.4784

Eisen.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1.0000	1.0000	1.4142

Eisenglanz.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 1.3623$	$lg c = 0.13428$	$lg a_0 = 0.10428$	$lg p_0 = 995819$	$a_0 = 1.2714$	$p_0 = 0.9082$	(G_2)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x:y)	y	d = $tg \varrho$
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	11 $\bar{2}$ 0	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	η	2 ∞	21 $\bar{3}$ 0	19 06'	"	"	"	19 06'	70 53'	0'3404	"	"
5	ϑ	4 ∞	41 $\bar{5}$ 0	10 53'	"	"	"	10 53'	79 06'	0'1924	"	"
6	q	$\frac{1}{2}0$	10 $\bar{1}$ 2	0 00	24 25'	0 00	24 25'	0 00	24 25'	o	0'4541	0'4541
7	π	10	10 $\bar{1}$ 1	"	42 14'	"	42 14'	"	42 14'	"	0'9082	0'9082
8	r	$\frac{2}{3}0$	60 $\bar{6}$ 5	"	47 27'	"	47 27'	"	47 27'	"	1'0898	1'0898
9	λ	20	20 $\bar{2}$ 1	"	61 10	"	61 10	"	61 10	"	1'8164	1'8164
10	α	40	40 $\bar{4}$ 1	"	74 36'	"	74 36'	"	74 36'	"	3'6328	3'6328
11	t	$\frac{2}{3}0$	9092	"	76 15	"	76 15	"	76 15	"	4'0870	4'0870
12	u	50	50 $\bar{5}$ 1	"	77 35	"	77 35	"	77 35	"	4'5411	4'5411
13	ξ	60	60 $\bar{6}$ 1	"	79 36	"	79 36	"	79 36	"	5'4492	5'4492
14	β	70	70 $\bar{7}$ 1	"	81 03'	"	81 03'	"	81 03'	"	6'3576	6'3576
15	γ	80	80 $\bar{8}$ 1	"	82 10	"	82 10	"	82 10	"	7'2657	7'2657
16	δ	90	90 $\bar{9}$ 1	"	83 01'	"	83 01'	"	83 01'	"	8'1740	8'1740
17	G	$-\frac{1}{2}3$	1'1'2'23	30 00	3 55	1 57'	3 23'	1 57'	3 23	0'0342	0'0592	0'0684
18	c'	$+\frac{1}{16}$	1'1'2'16	"	5 37	2 49	4 52	2 48	4 51'	0'0492	0'0851	0'0983
19	c'	$-\frac{1}{8}8$	1128	"	11 07'	5 37	9 40	5 24'	9 37	0'0983	0'1702	0'1966
20	a'	$-\frac{1}{3}$	1125	"	17 28	8 56'	15 14'	8 38	15 04	0'1573	0'2725	0'3146
21	d'E	$\pm\frac{1}{4}$	1124	"	21 28	11 07'	18 48'	10 32'	18 28'	0'1966	0'3406	0'3933
22	D'	$-\frac{2}{7}$	2247	"	24 12	12 40	21 16	11 49'	20 47'	0'2247	0'3892	0'4494
23	e'	$+\frac{2}{5}$	2245	"	32 10'	17 28	28 35	15 26'	27 28	0'3146	0'5449	0'6292
24	f δ	$\pm\frac{1}{2}$	1122	"	38 11	21 28	34 15'	18 03	32 22	0'3933	0'6811	0'7865
25	g'	$+\frac{4}{7}$	4487	"	41 57	24 12	37 54	19 04	35 22'	0'4494	0'7785	0'8989
26	x'	$+\frac{5}{8}$	5'5'10'8	"	44 31	26 10'	40 25	20 31	37 23	0'4916	0'8515	0'9832
27	C'	$-\frac{5}{7}$	5'5'10'7	"	48 20	29 19'	44 13	21 56	40 18'	0'5618	0'9731	1'1236
28	η'	$-\frac{4}{5}$	4485	"	51 32	32 11	47 27'	23 03	42 41'	0'6292	1'0898	1'2585
29	p'x'	± 1	1121	"	57 33'	38 11	53 43	24 57'	46 57'	0'7865	1'3623	1'5731
30	b'y'	$\pm\frac{5}{4}$	5'5'10'4	"	63 02'	44 31	59 34'	26 28	50 31'	0'9832	1'7025	1'9664
31	q'	$-\frac{3}{2}$	3362	"	67 02	49 43	63 55'	27 24'	52 53	1'1825	2'0435	2'3596
32	a'q'	± 2	2241	"	72 22	57 33'	69 51	28 27'	55 37'	1'5731	2'7246	3'1461
33	k'	$+\frac{5}{2}$	5'5'10'2	"	75 44	63 02'	73 38	28 59	57 04	1'9663	3'4058	3'9327
34	m'	+4	4481	"	80 58	72 22	79 36	29 35'	58 47'	3'1461	5'4492	6'2923
35	E'	-5	5'5'10'1	"	82 45	75 44	81 39	29 44	59 13	3'9327	6'8117	7'8654

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
36	z:	$-\frac{4}{3}\frac{1}{3}$	4155	10° 53'	39° 46'	8° 56'	39° 15'	6° 56'	38° 55'	0'1537	0'8174	0'8324
37	t:	$+\frac{1}{4}$	4154	"	46 08	11 07'	45 37	7 50	45 04'	0'1966	1'0217	1'0405
38	K:	$+\frac{1}{41}$	4151	"	76 29'	38 11	76 15	10 35'	72 42'	0'7865	4'0870	4'1620
39	H:	$+\frac{37}{31}\frac{25}{31}$	37'25'62'31	23 37'	57 43	32 23'	55 24'	19 48	50 46	0'6343	1'4502	1'5829
40	L:	$+\frac{4}{3}\frac{2}{3}$	4263	19 06'	58 01'	27 40	56 33	16 07'	53 16'	0'5244	1'5137	1'6020
41	M:	$+\frac{11}{8}\frac{5}{8}$	11'5'16'8	17 47	58 09	26 10'	56 52'	15 02	53 59	0'4916	1'5326	1'6095
42	N:	$+\frac{10}{7}\frac{4}{7}$	10'4'14'7	16 06	58 19'	24 12	57 17'	13 39	54 51	0'4494	1'5569	1'6205
43	O:	$+\frac{3}{2}\frac{1}{2}$	3142	13 54	58 35	21 28	57 39'	11 49'	55 56'	0'3933	1'5894	1'6373
44	a:	$+\frac{11}{8}\frac{5}{8}$	8'2'10'5	10 53'	59 00'	17 28	58 32'	9 19'	57 19'	0'3146	1'6348	1'6648
45	b:	$+\frac{7}{4}\frac{1}{4}$	7184	6 35	59 44'	11 07'	59 34'	5 41	59 06	0'1966	1'7029	1'7142
46	c:	$-\frac{2}{5}\frac{1}{5}$	10'1'11'5	4 43	62 24'	8 56'	62 20	4 10'	62 02'	0'1537	1'9073	1'9137
47	d:	$-\frac{2}{7}$	14'2'16'7	6 35	62 57'	12 40	62 48	5 52	62 13'	0'2196	1'9462	1'9591
48	e:	$-\frac{2}{7}$	4152	10 53'	64 20	21 28	63 55'	9 48'	62 15'	0'3933	2'0435	2'0811
49	q:	-82	8'2'10'1	"	83 09	57 33'	83 01'	10 49	77 09'	1'5373	8'1740	8'3240
50	Q:	$-\frac{7}{2}\frac{1}{2}$	7182	6 35	73 44'	21 28	73 38	6 19'	72 29'	0'3933	3'4058	3'4284
51	R:	$+\frac{74}{104}$	7'4'11'1	21 03	83 29	72 22	83 01'	20 54'	68 00'	3'1461	8'1740	8'7586
52	S:	$+\frac{10}{2}4$	10'4'14'1	16 06	84 58	"	84 45'	16 02'	73 09	"	10'650	11'344
53	T:	$+\frac{22}{2}4$	29'8'37'2	11 51'	86 16	"	86 11	11 50	77 34'	"	14'985	15'312
54	R:	-43	4371	25 17	79 44'	67 02	78 41	24 51	62 50'	2'3596	4'9951	5'5245
55	g:	$-\frac{1}{2}\frac{1}{2}$	4158	10 53'	27 29	5 37	27 03'	5 00	26 57	0'0983	0'5109	5'2025
56	Σ	$+\frac{14}{5}\frac{2}{5}$	14'2'16'5	6 35	69 58	17 28	69 50'	6 11	68 57	0'3146	2'7246	2'7427
57	Φ	$-\frac{7}{5}\frac{7}{20}$	28'7'35'20	10 53'	55 32	15 23'	55 02'	8 58	54 03'	0'2753	1'4304	1'4567
58	Π	$-\frac{9}{2}\frac{2}{2}$	8'2'10'7	"	49 56'	12 40	49 25'	8 19	48 43'	0'2247	1'1677	1'1891
59	Ω	$-\frac{20}{13}\frac{2}{13}$	20'2'22'13	4 43	55 48'	6 54	55 43'	3 54	55 31'	0'1210	1'4671	1'4721

Eisenspath.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 0'8184 \quad | \quad \lg c = 991297 \quad | \quad \lg a_0 = 032559 \quad | \quad \lg p_0 = 973688 \quad | \quad a_0 = 2'1163 \quad | \quad p_0 = 0'5456 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	$\infty 0$	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	λ	20	2021	0 00	47 30	0 00	47 30	0 00	47 30	0	1'0912	1'0912
5	f δ	$+\frac{1}{2}$	1122	30 00	25 17'	13 17'	22 15'	12 20	21 43	0'2362	0'4092	0'4725
6	i	$+\frac{3}{4}$	3364	"	35 19'	19 31	31 32'	16 48'	30 03	0'3544	0'6138	0'7088
7	p'	$+\frac{1}{2}$	1121	"	43 23	25 17'	39 18	20 05	36 30	0'4725	0'8184	0'9450
8	q'	$-\frac{3}{2}$	3362	"	54 48	35 19'	50 50	24 07	45 02'	0'7088	1'2276	1'4175
9	r'	-2	2241	"	62 07	43 23	58 34'	26 13'	49 57	0'9450	1'6368	1'8900

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg e
10	Ω	$-\frac{7}{3}$	$7\cdot7\cdot14\cdot3$	$30^{\circ}00$	$65^{\circ}36'$	$47^{\circ}47'$	$62^{\circ}21'$	$27^{\circ}05'$	$52^{\circ}04'$	1'1025	1'9096	2'2050
11	m'	+4	4481	"	75 11	62 07	73 01	28 54'	56 51	1'8900	3'2736	3'7801
12	Φ	-5	$5\cdot5\cdot10\cdot1$	"	78 03	67 03'	76 16	29 17	57 54'	2'3625	4'0920	4'7251
13	Π	-8	$8\cdot8\cdot16\cdot1$	"	82 28	75 11	81 19	29 43	59 09'	3'7801	6'5473	7'5602
14	K:	+41	4151	10 53'	68 12	25 17'	67 50'	10 06'	65 45	0'4725	2'4552	2'5003
15	q:	-82	$8\cdot2\cdot10\cdot1$	"	78 41'	43 23	78 29'	10 41	74 21	0'9450	4'9104	5'0006

Eisenvitriol.

Monoklin.

a = 1'1828	lg a = 007291	lg a ₀ = 988463	lg p ₀ = 011537	a ₀ = 0'7667	p ₀ = 1'3043
c = 1'5427	lg c = 018828	lg b ₀ = 981172	lg q ₀ = 017468	b ₀ = 0'6482	q ₀ = 1'4951
$\mu = \left. \begin{array}{l} \\ 180 - \beta \end{array} \right\} 75^{\circ}44$	lg h = $\left. \begin{array}{l} \\ \lg \sin \mu \end{array} \right\} 998640$	lg e = $\left. \begin{array}{l} \\ \lg \cos \mu \end{array} \right\} 939170$	lg $\frac{p_0}{q_0}$ = 994069	h = 0'9692	e = 0'2464

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg e'
1	c	0	001	$90^{\circ}00$	$14^{\circ}16$	$14^{\circ}16$	$0^{\circ}00$	$14^{\circ}16$	$0^{\circ}00$	0'2542'	0	0'2542'
2	b	0∞	010	$0^{\circ}00$	$90^{\circ}00$	$0^{\circ}00$	$90^{\circ}00$	$0^{\circ}00$	$90^{\circ}00$	0	∞	∞
3	a	$\infty 0$	100	$90^{\circ}00$	"	$90^{\circ}00$	$0^{\circ}00$	$90^{\circ}00$	$0^{\circ}00$	∞	0	"
4	m	∞	110	41 06	"	"	90 00	41 06	48 54	0'8723	∞	"
5	e	$0\frac{1}{3}$	013	26 18'	29 50'	14 16	27 13	12 44'	26 29'	0'2543	0'5142'	0'5737
6	o	01	011	9 21'	57 24	"	57 03	7 52'	56 13'	"	1'5427	1'5635
7	u	+30	301	$90^{\circ}00$	76 53	76 53	$0^{\circ}00$	76 53	$0^{\circ}00$	4'2916	0	4'2916
8	v	+10	101	"	58 00	58 00	"	58 00	"	1'6000	"	1'6000
9	w	+ $\frac{1}{3}0$	103	"	35 06	35 06	"	35 06	"	0'7027'	"	0'7027'
10	s	$-\frac{1}{3}0$	105	$90^{\circ}00$	0 51	0 51	"	0 51	"	0'0148'	"	0'0148'
11	t	-10	101	"	47 30'	47 30'	"	47 30'	"	1'0915'	"	1'0915'
12	r	+1	111	46 03	65 46'	58 00	57 03	41 02'	39 16	1'6005'	1'5427	2'2227
13	α	+ $\frac{1}{2}$	112	50 14'	56 20	42 50	37 38'	36 17	29 29'	0'9271	0'7713'	1'2060
14	β	+12	121	27 25	73 57	58 00	72 02'	26 15'	58 33	1'6005'	3'0854	3'4756
15	γ	-12	121	19 29	73 00'	47 30'	"	18 36	64 22	1'0917	"	3'2728
16	δ	+21	211	62 21'	73 15'	71 15	57 03	58 01'	26 22'	2'9454	1'5427	3'3250

Eleonorit.

Monoklin.

$a = 2.755$	$\lg a = 0.44012$	$\lg a_o = 9.83636$	$\lg p_o = 0.16364$	$a_o = 0.6861$	$p_o = 1.4576$
$c = 4.0157$	$\lg c = 0.60376$	$\lg b_o = 9.39624$	$\lg q_o = 0.47855$	$b_o = 0.2490$	$q_o = 3.0099$
$\mu = \begin{cases} 48^\circ 33' \\ 180 - \beta \end{cases}$	$\lg h = \begin{cases} 9.87479 \\ \lg \sin \mu \end{cases}$	$\lg e = \begin{cases} 9.82084 \\ \lg \cos \mu \end{cases}$	$\lg \frac{p_o}{q_o} = 9.68509$	$h = 0.7495$	$e = 0.6620$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	$\frac{x'}{(Prismen)} (x : y)$	y'	$d' = \operatorname{tg} \varrho$
1	c	o	001	90° 00	41° 27	41° 27	0° 00	41° 27	0° 00	0.8832	o	0.8832
2	a	∞o	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	f	+1	111	35 09	78 29	70 31	76 01	34 21	53 14	2.8279	4.0157	4.9114
4	g	-1	111	14 38	76 27	46 21	"	14 13	70 10	1.0481	"	4.1502

Embolit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	$\frac{x}{(Prismen)} (x : y)$	y	$d = \operatorname{tg} \varrho$
1	c	$\begin{cases} o \\ \infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} o \\ " \end{matrix}$	$\begin{matrix} o \\ \infty \end{matrix}$	$\begin{matrix} o \\ \infty \end{matrix}$
2	e	$\begin{cases} o\frac{1}{2} \\ o2 \\ \infty 2 \end{cases}$	$\begin{matrix} 012 \\ 021 \\ 120 \end{matrix}$	$\begin{matrix} " \\ " \\ 26 34 \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ " \\ 90 00 \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ " \\ 26 34 \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \\ " \end{matrix}$	$\begin{matrix} " \\ " \\ 0.5000 \end{matrix}$	$\begin{matrix} 0.5000 \\ 2.0000 \\ \infty \end{matrix}$	$\begin{matrix} 0.5000 \\ 2.0000 \\ \infty \end{matrix}$
3	d	$\begin{cases} o1 \\ \infty \end{cases}$	$\begin{matrix} 011 \\ 110 \end{matrix}$	$\begin{matrix} o 00 \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} o 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} o 00 \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ " \end{matrix}$	$\begin{matrix} o \\ 1.0000 \end{matrix}$	$\begin{matrix} 1.0000 \\ \infty \end{matrix}$	$\begin{matrix} 1.0000 \\ \infty \end{matrix}$
4	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1.0000	1.4142

Emplektit.

Rhombisch.

$a = 0.9601$	$\lg a = 9.98232$	$\lg a_o = 0.09369$	$\lg p_o = 9.90631$	$a_o = 1.2408$	$p_o = 0.8059$
$c = 0.7738$	$\lg c = 9.88863$	$\lg b_o = 0.11137$	$\lg q_o = 9.88863$	$b_o = 1.2923$	$q_o = 0.7738$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	$\frac{x}{(Prismen)} (x : y)$	y	$d = \operatorname{tg} \varrho$
1	c	o	001	-	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	b	∞∞	010	000	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞o	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
4	u	∞	320	57° 22'	90° 00'	90° 00'	90° 00'	57° 22'	32° 37'	1'5623	∞	∞
5	g	∞	650	51 20	"	"	"	51 20	38 40	1'2498'	"	"
6	z	∞	110	46 10	"	"	"	46 10	43 50	1'0415'	"	"
7	y	∞^2	120	27 30'	"	"	"	27 30'	62 29	0'5207'	"	"
8	x	∞^7	170	8 27'	"	"	"	8 27'	81 32'	0'1488	"	"
9	d	10	101	90 00	38 52	38 52	0 00	38 52	0 00	0'8059	0	0'8059
10	k	$\frac{1}{3}0$	103	"	15 02	15 02	"	15 02	"	0'2686	"	0'2686

Enargit.

Rhombisch.

a = 0'8711	lg a = 994007	lg a ₀ = 002372	lg p ₀ = 997628	a ₀ = 1'0562	p ₀ = 0'9468
c = 0'8248	lg c = 991635	lg b ₀ = 008365	lg q ₀ = 991635	b ₀ = 1'2124	q ₀ = 0'8248

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	r	$\frac{3}{2}\infty$	310	73 48'	"	"	90 00	73 48'	16 11'	3'4439	∞	"
5	d	$\frac{2}{3}\infty$	210	66 28	"	"	"	66 28	23 32	2'2959'	"	"
6	x	$\frac{3}{2}\infty$	320	59 51'	"	"	"	59 51'	30 09	1'7219'	"	"
7	e	$\frac{4}{3}\infty$	430	56 50'	"	"	"	56 50'	33 09'	1'5306	"	"
8	g	∞	110	48 56'	"	"	"	48 56'	41 03'	1'1479'	"	"
9	h	∞^2	120	29 51'	"	"	"	29 51'	60 08'	0'5740	"	"
10	l	∞^3	130	20 56'	"	"	"	20 56'	69 03'	0'3826'	"	"
11	s	01	011	0 00	39 31	0 00	39 31	0 00	39 31	0	0'8248	0'8248
12	θ	05	051	"	76 22	"	76 22	"	76 22	"	4'1240	4'1240
13	λ	$\frac{1}{3}0$	103	90 00	17 31	17 31	0 00	17 31	0 00	0'3156	0	0'3156
14	n	$\frac{2}{3}0$	102	"	25 20	25 20	"	25 20	"	0'4734	"	0'4734
15	k	10	101	"	43 26	43 26	"	43 26	"	0'9468'	"	0'9468'
16	m	20	201	"	62 10	62 10	"	62 10	"	1'8937	"	1'8937
17	o	1	111	48 56'	51 28	43 26	39 31	36 08'	30 55	0'9468'	0'8248	1'2557
18	p	$\frac{1}{2}$	112	"	32 07'	25 20	22 24'	23 38	20 26'	0'4734	0'4124	0'6279
19	q	$\frac{1}{5}$	115	"	14 06	10 43'	9 22	10 35	9 12'	0'1893'	0'1649'	0'2511
20	L	$\frac{1}{2}\frac{2}{3}$	132	20 56'	52 57	25 20	51 03	16 34'	48 11'	0'4734	1'2375	1'3247
21	z	$\frac{1}{4}\frac{1}{3}$	134	"	33 31	13 19	31 44'	11 23	31 02'	0'2367	0'6186	0'6623

Eosit.**Tetragonal.**

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1.3778$	$\lg c = 0.13919$	$\lg a_0 = 9.86081$	$a_0 = 0.7258$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	p	I	111	45°00	62 50	54 01'	54 01'	38 59	38 59	1.3778	1.3778	1.9485

Eosphorit.**Rhombisch.**

$a = 0.7768$	$\lg a = 9.89031$	$\lg a_0 = 0.17850$	$\lg p_0 = 9.82150$	$a_0 = 1.5083$	$p_0 = 0.6630$
$c = 0.5150$	$\lg c = 9.71181$	$\lg b_0 = 0.28819$	$\lg q_0 = 9.71181$	$b_0 = 1.9417$	$q_0 = 0.5150$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	p	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	o	∞	∞
2	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
3	n	∞	110	52 09'	"	"	90 00	52 09'	37 50'	1.2873	∞	"
4	g	$\infty 2$	120	32 46'	"	"	"	32 46'	57 14	0.6436'	"	"
5	t	I	111	52 09'	40 01	33 32'	27 15	30 31	23 14	0.6630	0.5138	0.8395
6	q	1 $\frac{3}{2}$	232	40 38'	45 30'	"	37 41	27 41	32 46'	"	0.7725	1.0179
7	s	12	121	32 46'	50 46'	"	45 51	24 47'	40 38'	"	1.0300	1.2249

Epididymit.**Rhombisch.**

$a = 1.7367$	$\lg a = 0.23979$	$\lg a_0 = 9.97150$	$\lg p_0 = 0.02850$	$a_0 = 0.9365$	$p_0 = 1.0678$
$c = 1.8548$	$\lg c = 0.26829$	$\lg b_0 = 9.73171$	$\lg q_0 = 0.26829$	$b_0 = 0.5391$	$q_0 = 1.8548$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	0 ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	0 00	90 00	0 00	90 00	0 00	∞	o	"
4	l	3 ∞	310	59 56	90 00	"	90 00	59 56	30 04	1.7272	∞	"
5	n	2 ∞	210	49 01'	"	"	"	49 01'	40 58'	1.1514	"	"
6	m	∞	110	29 56	"	"	"	29 56	60 04	0.5757	"	"

N _{o.}	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
7	i	$\frac{1}{3}0$	103	90°00	19°36	19°36	0°00	19°36	0°00	0'3359	0	0'3359
8	h	$\frac{3}{8}0$	308	"	21 49'	21 49'	"	21 49'	"	0'4004	"	0'4004
9	g	$\frac{1}{2}0$	102	"	28 06	28 06	"	28 06	"	0'5339	"	0'5339
10	e	$\frac{2}{3}0$	203	"	35 23	35 23	"	35 23	"	0'7102	"	0'7102
11	d	10	101	"	46 52'	46 52'	"	46 52'	"	1'0678	"	1'0678
12	f	20	201	"	64 54'	64 54'	"	64 54'	"	2'1356	"	2'1356
13	p	1	111	29 56	64 57'	46 52'	61 40	26 52'	51 44	1'0678	1'8548	2'1402

Epidot.

Monoklin.

a = 1'5807	lg a = 019885	lg a ₀ = 994220	lg p ₀ = 005780	a ₀ = 0'8754	p ₀ = 1'1423
c = 1'8057	lg c = 025665	lg b ₀ = 974335	lg q ₀ = 021250	b ₀ = 0'5538	q ₀ = 1'6312
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 64^\circ 36$	lg h = $\left. \begin{matrix} \\ \\ \end{matrix} \right\} 995585$	lg e = $\left. \begin{matrix} \\ \\ \end{matrix} \right\} 963239$	lg $\frac{p_0}{q_0}$ = 984530	h = 0'9033	e = 0'4289

N _{o.}	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	0	001	90°00	25°24	25°24	0°00	25°24	0°00	0'4748	0	0'4748
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	t	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	y	3∞	310	64 33	"	"	90 00	64 33	25 27	2'1009	∞	"
5	u	2∞	210	54 28'	"	"	"	54 28'	35 31'	1'4006	"	"
6	τ	$\frac{3}{2}\infty$	320	46 24'	"	"	"	46 24'	43 35'	1'0504'	"	"
7	z	$\frac{2}{3}\infty$	110	35 00'	"	"	"	35 00'	54 59'	0'7003	"	"
8	G	$\frac{1}{2}2$	120	19 18	"	"	"	19 18	70 42	0'3501'	"	"
9	E	$\frac{1}{2}5$	150	7 58'	"	"	"	7 58'	82 01'	0'1400	"	"
10	p	$\frac{1}{6}0$	016	57 38	29 20'	25 24	16 45	24 27	15 12'	0'4748'	0'3009	0'5622
11	h	$\frac{1}{3}$	015	52 44'	30 49	"	19 51'	24 04	18 04	"	0'3613	0'5966
12	Q	$\frac{2}{3}0$	029	49 48	31 52	"	21 52	23 47	19 55'	"	0'4013	0'6217
13	w	$\frac{1}{4}0$	014	46 27	33 14	"	24 18	23 24	22 11	"	0'4514'	0'6552
14	γ	$\frac{1}{3}$	013	38 16	37 28'	"	31 02'	22 08'	28 32	"	0'6019	0'7666
15	k	$\frac{1}{2}0$	012	27 44'	45 34	"	42 04'	29 25	39 12	"	0'9028'	1'0201
16	D	$\frac{2}{3}0$	023	21 31'	52 18'	"	50 17	16 53	47 24	"	1'2038	1'2941
17	o	01	011	14 44	61 49'	"	61 01'	12 57'	58 29'	"	1'8057	1'8671
18	g	+30	301	90 00	76 49	76 49	0 00	76 49	0 00	4'2684	0	4'2684
19	θ	+20	201	"	71 35	71 35	"	71 35	"	3'0038'	"	3'0038'
20	e	+10	101	"	60 06	60 06	"	60 06	"	1'7393	"	1'7393
21	l	+ $\frac{3}{4}0$	304	"	54 54'	54 54'	"	54 54'	"	1'4231	"	1'4231
22	W	+ $\frac{2}{3}0$	305	"	50 58	50 58	"	50 58	"	1'2334	"	1'2334
23	m	+ $\frac{1}{2}0$	102	"	47 54'	47 54'	"	47 54'	"	1'1070	"	1'1070

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } e$
24	A	$+\frac{1}{3}0$	103	90°00	41°52	41°52	0°00	41°52	0°00	0·8962	0	0·8962
25	Q	$+\frac{1}{3}0$	105	"	36 02'	36 02'	"	36 02'	"	0·7276	"	0·7276
26	C	$-\frac{1}{3}0$	105	90 00	12 31	12 31	"	12 31	"	0·2219'	"	0·2219'
27	S	$-\frac{1}{4}0$	104	"	9 01	9 01	"	9 01	"	0·1587'	"	0·1587'
28	R	$-\frac{1}{4}0$	103	"	3 03'	3 03'	"	3 03'	"	0·0533'	"	0·0533'
29	i	$-\frac{1}{2}0$	102	"	8 57	8 57	"	8 57	"	0·1574	"	0·1574
30	σ	$-\frac{2}{3}0$	203	"	20 13	20 13	"	20 13	"	0·3682	"	0·3682
31	N	$-\frac{2}{3}0$	304	"	25 20'	25 20'	"	25 20'	"	0·4735'	"	0·4735'
32	r	-10	101	"	38 18	38 18	"	38 18	"	0·7897'	"	0·7897'
33	L	$-\frac{7}{6}0$	706	"	45 06'	45 06'	"	45 06'	"	1·0004	"	1·0004
34	β	$-\frac{1}{3}0$	403	"	50 27	50 27	"	50 27	"	1·2109	"	1·2109
35	K	$-\frac{2}{3}0$	302	"	54 53	54 53	"	54 53	"	1·4218	"	1·4218
36	a	-20	201	"	64 02'	64 02'	"	64 02'	"	2·0543	"	2·0543
37	f	-30	301	"	73 14	73 14	"	73 14	"	3·3187'	"	3·3187'
38	T	-40	401	"	77 41'	77 41'	"	77 41'	"	4·5833	"	4·5833
39	d	$+\frac{1}{2}$	111	43 55'	68 15'	60 06	61 01'	40 07	41 59'	1·7393	1·8057	2·5072
40	v	$+\frac{1}{2}$	112	50 48	55 00'	47 54'	42 05	39 24'	31 11	1·1070	0·9028'	1·4275
41	ε	$+\frac{1}{3}$	113	56 07	47 11'	41 52	31 02'	37 31'	24 08'	0·8963	0·6019	1·0797
42	ν	$+\frac{1}{6}$	116	66 18	36 50'	34 26	16 45	33 17	13 56'	0·6855'	0·3009'	0·7487
43	ι	$+\frac{1}{15}$	1·1·15	77 51	29 46	29 12'	6 52	29 02	6 00	0·5590	0·1204	0·5719
44	π	$-\frac{1}{4}$	114	19 22	25 34'	9 01	24 18	8 13'	24 02	0·1586'	0·4514	0·4785
45	ϱ	$-\frac{1}{3}$	113	5 03'	31 08'	3 03	31 02'	2 37	31 00'	0 0533	0·6019	0·6043
46	x	$-\frac{1}{2}$	112	9 53'	42 30'	8 57	42 05	6 40	41 44	0·1574	0 9028'	0·9165
47	n	-1	111	23 37'	63 06	38 18	61 01'	20 56	54 47'	0·7897	1·8057	1·9709
48	q	-2	221	29 38	76 28	64 02'	74 31'	28 44	57 41	2·0543	3·6114	4·1548
49	ϕ	$+\frac{1}{2}$	121	25 43	75 59'	60 06	"	24 54	60 57	1·7393	"	4·0084
50	ξ	$-\frac{1}{3}$	313	52 41	44 48	38 18	31 02'	34 05	25 17	0·7897	0·6019	0·9930
51	H	$-\frac{1}{2}$	212	41 10'	50 11	"	42 05	30 23	35 19	"	0·9028'	1·1995
52	s	$-\frac{1}{3}$	323	33 16	55 13	"	50 17	26 46'	43 22'	"	1·2038	1·4397
53	Z	$-\frac{1}{3}$	232	16 15'	70 29	"	69 44	15 18	64 48	"	2·7086	2·8214
54	Φ	$-\frac{1}{3}$	353	14 42	72 11	"	71 37	13 59	61 34'	"	3·0095'	3·1114
55	φ	-12	121	12 20	74 51	"	74 31'	11 54	70 34	"	3·6114	3·6967
56	A	-13	131	8 17'	79 39	"	79 32'	8 09'	76 46	"	5·4171	5·4744
57	δ	-14	141	6 14'	82 10	"	82 07	6 11	80 00	"	7·2228	7·2660
58	E	-15	151	5 00	83 42	"	83 41	4 58	81 57'	"	9·0286	9·0632
59	A	-16	161	4 10	84 44'	"	84 43'	4 09	83 17'	"	10·8343	10·863'
60	a	-17	171	3 34'	85 29	"	85 28'	3 34	84 14'	"	12·6400	12·665
61	b	$+\frac{1}{61}$	611	77 22'	83 06	82 56	61 01'	75 35'	12 32	8·0620	1·8057	8·2615
62	w	$+\frac{1}{21}$	211	58 59'	74 04'	71 35	"	55 30'	29 42	3·0038'	"	3·5048
63	Σ	$+\frac{1}{2}$	122	31 30'	64 43'	47 54'	"	28 12'	50 26'	1·1070	"	2·1180
64	P	$+\frac{1}{4}$	144	23 39'	63 06	38 20'	"	20 58	54 58	0·7909'	"	1·9714
65	ψ	$-\frac{1}{2}$	122	4 59	61 07	8 57	"	4 21	60 43'	0·1574	"	1·8125
66	B	$-\frac{2}{3}$	233	11 31'	61 31	20 13	"	10 07	59 27'	0·3682	"	1·8428
67	M	-21	211	48 41	69 55	64 02'	"	44 52	38 19'	2·0543	"	2·7351
68	χ	-31	311	61 27	75 11'	73 14	"	58 07	27 31	3·3188	"	3·7782

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
69	b	- 41	411	68° 30'	78° 31'	77° 41'	61° 01'	65° 45'	21° 05'	4'5833	1'8057	4'9263
70	a	+ 23	231	29 00'	80 50'	71 35'	79 32'	28 36'	59 42'	3'0038	5'4171	6'1943
71	c	- 2 $\frac{2}{3}$	412	66 16'	65 59'	64 02'	42 05'	56 44'	21 34'	2'0543	0'9028	2'2439
72	S	- 2 $\frac{2}{3}$	623	59 38'	67 13'	"	50 17'	52 42'	27 47'	"	1'2038	2'3810
73	x	+ 52	521	62 01'	82 36'	81 38'	74 31'	61 08'	27 44'	6'7975	3'6114	7'6973
74	z	- 52	521	58 18'	81 43'	80 18'	"	57 21'	31 20'	5'8479	"	6'8732
75	I'	- 5 $\frac{1}{2}$	512	71 25'	70 34'	69 35'	42 05'	63 22'	17 29'	2'6866	0'9028	2'8343
76	U	- 1 $\frac{1}{2}$	234	6 38'	53 44'	8 57'	53 33'	5 21'	53 13'	0'1575	1'3543	1'3634
77	o	- 1 $\frac{1}{3}$	123	2 32'	50 19'	3 03'	50 17'	1 57'	50 14'	0'0533	1'2038	1'2050
78	λ	+ 2 $\frac{1}{3}$	213	65 27'	55 23'	52 48'	31 02'	48 28'	20 00'	1'3177	0'6019	1'4487
79	ψ	- 4 $\frac{1}{3}$	413	74 26'	65 58'	65 10'	"	61 37'	14 11'	2'1607	"	2'2430
80	μ	- 4 $\frac{1}{3}$	423	60 52'	67 59'	"	50 17'	54 05'	26 49'	"	1'2038	2'4734
81	V	- 0 $\frac{1}{2}$	914	83 58'	76 53'	76 49'	24 18'	75 35'	5 55'	4'2681	0'4514	4'2919
82	Y	- 7 $\frac{1}{2}$	732	66 59'	81 47'	81 06'	69 44'	65 38'	22 46'	6'3763	2'7085	6'9277

Epigenit.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 0.16151; \quad \frac{p_0}{q_0} = 1.4504; \quad \frac{a}{b} = 0.690$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	m	∞	110	55° 25'	90° 00'	90° 00'	90° 00'	55° 25'	34° 35'	1'4504	∞	∞

Epistilbit.

Monoklin.

a = 0.5074	lg a = 970535	lg a ₀ = 994432	lg p ₀ = 005568	a ₀ = 0.8797	p ₀ = 1.1368
c = 0.5768	lg c = 976103	lg b ₀ = 023897	lg q ₀ = 967728	b ₀ = 1.7337	q ₀ = 0.4756
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 55^\circ 33'$	lg h = $\left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 991625$	lg e = $\left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 975258$	lg $\frac{p_0}{q_0}$ = 037840	h = 0.8246	e = 0.5657

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	t	0	001	90° 00'	34° 27'	34° 27'	0° 00'	34° 27'	0° 00'	0.6860	0	0.6860
2	r	0∞	010	0 00'	90 00'	0 00'	90 00'	0 00'	90 00'	0	∞	∞
3	m	∞	110	67 18'	"	90 00'	"	67 18'	22 42'	2'3900	"	"
4	u	01	011	49 56'	41 52'	34 27'	29 58'	30 43'	25 26'	0.6860	0.5768	0.8963
5	e	- 10	101	90 00'	34 42'	34 42'	0 00'	34 42'	0 00'	0.6925	0	0.6925
6	s	- 1 $\frac{1}{2}$	112	0 39'	16 05'	0 11'	16 05'	0 11'	16 05'	0.0032	0.2884	0.2884
7	p	- 1	111	50 12'	42 02'	34 42'	29 58'	30 57'	25 22'	0.6925	0.5768	0.9013

Epsomit.

Rhombisch.

a = 0.9901	lg a = 999568	lg a ₀ = 023912	lg p ₀ = 976088	a ₀ = 1.7343	p ₀ = 0.5766
c = 0.5709	lg c = 975656	lg b ₀ = 024344	lg q ₀ = 975656	b ₀ = 1.7516	q ₀ = 0.5709

N ^o .	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d =tgρ
1	a	∞∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	m	∞	110	45 17	"	"	90 00	45 17	44 43	1.0100	∞	"
4	f	∞2	120	26 47	"	"	"	26 47	63 12	0.5050	"	"
5	g	2∞	210	63 39	"	"	"	63 39	26 20	2.0200	"	"
6	v	01	011	0 00	29 43	0 00	29 43	0 00	29 43	0	0.5709	0.5709
7	r	02	021	"	48 47	"	48 47	"	48 47	"	1.1418	1.1418
8	n	10	101	90 00	29 58	29 58	0 00	29 58	0 00	0.5766	0	0.5766
9	x	20	201	"	49 04	49 04	"	"	"	1.1532	"	1.1532
10	z	1	111	45 17	39 03	29 58	29 43	26 36	26 19	0.5766	0.5709	0.8114
11	t	12	121	26 47	51 59	"	48 47	20 48	44 41	"	1.1418	1.2791
12	s	21	211	63 39	52 09	49 04	29 43	45 02	20 30	1.1532	0.5709	1.2868

Erythrosiderit.

Rhombisch.

a = 0.6911	lg a = 983954	lg a ₀ = 998354	lg p ₀ = 001646	a ₀ = 0.9628	p ₀ = 1.0386
c = 0.7178	lg c = 985600	lg b ₀ = 014400	lg q ₀ = 985600	b ₀ = 1.3932	q ₀ = 0.7178

N ^o .	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d =tgρ
1	b	∞0	100	90° 00	90° 00	90° 00	0° 00	90° 00	0° 00	∞	0	∞
2	n	∞	110	55 21	"	"	90 00	55 21	34 39	1.4469	∞	"
3	d	1/2 0	102	90 00	27 26	27 26	0 00	27 26	0 00	0.5193	0	0.5193
4	e	10	101	"	46 05	46 05	"	46 05	"	1.0386	"	1.0386

Ettringit.

Hexagonal-holoedrisch.

$c = 0.817$	$\lg c = 991222$	$\lg a_0 = 032634$	$\lg p_0 = 973613$	$a_0 = 2.1200$	$p_0 = 0.5447$	(G_1)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	p	10	1011	"	28 34	"	28 34	"	28 34	"	0.5447	0.5447
4	q	20	2021	"	47 27	"	47 27	"	47 27	"	1.0893	1.0893

Euchlorin.

Rhombisch.

$a = 0.7616$	$\lg a = 988173$	$\lg a_0 = 960862$	$\lg p_0 = 039138$	$a_0 = 0.4061$	$p_0 = 2.4625$
$c = 1.8755$	$\lg c = 027311$	$\lg b_0 = 972689$	$\lg q_0 = 027311$	$b_0 = 0.5332$	$q_0 = 1.8755$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	C	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	B	0∞	010	0°00	90 00	"	90 00	"	90 00	"	\sim	∞
3	e	01	011	"	61 56	"	61 56	"	61 56	"	1.8755	1.8755
4	n	$\frac{1}{3}0$	103	90 00	39 23	39 23	0 00	39 23	0 00	0.8208	o	0.8208
5	m	10	101	"	67 54	67 54	"	67 54	"	2.4627	"	2.4627

Euchroit.

Rhombisch.

$a = 0.6088$	$\lg a = 978447$	$\lg a_0 = 976831$	$\lg p_0 = 023169$	$a_0 = 0.5866$	$p_0 = 1.7049$
$c = 1.0379$	$\lg c = 001616$	$\lg b_0 = 998384$	$\lg q_0 = 001616$	$b_0 = 0.9635$	$q_0 = 1.0379$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	58 40	"	90 00	"	58 40	31 20	1.6426	"	"
4	s	$\infty \frac{3}{2}$	230	47 36	"	"	"	47 36	42 24	1.0950	"	"
5	l	$\infty 2$	120	39 23	"	"	"	39 23	50 36	0.8213	"	"
6	n	01	011	0 00	46 04	0 00	46 04	0 00	46 04	o	1.0379	1.0379
7	d	$\frac{1}{2}0$	102	90 00	40 26	40 26	0 00	40 26	0 00	0.8524	o	0.8524
8	e	10	101	"	59 36	59 36	"	59 36	"	1.7049	"	1.7049

Eudialyt.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 2'1116 \quad \lg c = 032461 \quad \lg a_0 = 991395 \quad \lg p_0 = 014852 \quad a_0 = 0'8203 \quad p_0 = 1'4078 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	$\infty 0$	10 $\bar{1}0$	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	11 $\bar{2}0$	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	π	10	10 $\bar{1}1$	0 00	54 36'	0 00	54 36'	0 00	54 36'	o	1'4077	1'4077
5	λ	20	20 $\bar{2}1$	"	70 27	"	70 27	"	70 27	"	2'8155	2'8155
6	α'	$-\frac{1}{4}$	1 $\bar{1}25$	30 00	26 00	13 42	22 53'	12 39'	22 18'	0'2438	0'4223	0'4877
7	d'	$+\frac{1}{4}$	11 $\bar{2}4$	"	31 22	16 57	27 50	15 05	26 47'	0'3048	0'5279	0'6096
8	f δ'	$+\frac{1}{2}$	11 $\bar{2}2$	"	50 38'	31 22	46 33'	22 44'	42 02	0'6096	1'0558	1'2191
9	x'	$+\frac{3}{8}$	5'5'10'8	"	56 43'	37 18'	52 51	24 42'	46 23'	0'7620	1'3198	1'5239
10	p'	+1	11 $\bar{2}1$	"	67 42	50 38'	64 39'	27 33'	53 15	1'2192	2'1116	2'4383
11	φ'	-2	$\bar{2}241$	"	78 24'	67 42	76 40'	29 19'	58 02	2'4383	4'2232	4'8765
12	H:	$+\frac{5}{8}1$	5 $\bar{2}71$	16 06	77 11	50 38'	"	15 41'	69 31'	1'2191	"	4'3957
13	K:	+41	41 $\bar{5}1$	10 53'	81 11'	"	81 02	10 46	76 01'	"	6'3347	6'4510

Eudidymit.

Monoklin.

a = 1'7107	lg a = 023318	lg a ₀ = 018899	lg p ₀ = 981101	a ₀ = 1'5452	p ₀ = 0'6472
c = 1'1071	lg c = 004419	lg b ₀ = 995581	lg q ₀ = 004325	b ₀ = 0'9033	q ₀ = 1'1047
$\mu = \left. \begin{matrix} 180 - \beta \\ 86^\circ 14' \end{matrix} \right\}$	lg h = $\left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\}$ 999906	lg e = $\left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\}$ 881752	lg $\frac{p_0}{q_0}$ = 976776	h = 0'9978	e = 0'0657

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	3°46	3°46	0°00	3°46	0°00	0'0658	o	0'0658
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	l	3 ∞	310	60 21'	"	"	"	60 21'	29 38'	1'7574'	"	"
4	e	0 $\frac{1}{3}$ 0	0'10'3	1 01'	74 50'	3 46	74 50'	0 59	74 48'	0'0658	3'6904	3'6910
5	x	$+\frac{1}{10}0$	10'0'1	90 00	81 19'	81 19'	0 00	81 19'	0 00	6'5518	o	6'5518
6	d	$+\frac{2}{5}0$	502	"	59 21	59 21	"	59 21	"	1 6873	"	1'6873
7	q	-50	$\bar{5}01$	90 00	72 32	$\bar{7}2 32$	"	$\bar{7}2 32$	"	3'1771'	"	3'1771'
8	s	$+\frac{5}{2}$	552	31 22	72 51'	59 21	70 08	29 49'	54 40'	1'6873	2'7677	3'2415
9	o	+1	111	32 50	52 48	35 32'	47 54'	25 35'	42 01	0'7144'	1'1071	1'3176
10	u	$+\frac{3}{3}$	335	34 24'	38 50'	24 28	33 36	20 45'	31 09'	0'4550	0'6642'	0'8051
11	v	$-\frac{3}{4}$	334	26 52	42 57	22 49	39 42	17 56	37 26	0'4206	0'8303	0'9308
12	t	-5	551	29 51	81 06	72 32	79 45'	29 27'	58 58	3'1771'	5'5355	6'3825

Euklas.

Monoklin.

a = 0'3237	lg a = 951014	lg a ₀ = 998744	lg p ₀ = 001256	a ₀ = 0'9715	p ₀ = 1'0293
c = 0'3332	lg c = 952270	lg b ₀ = 047730	lg q ₀ = 951569	b ₀ = 3'0012	q ₀ = 0'3279
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 79^{\circ} 44'$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 999299$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 925098$	$\lg \frac{p_0}{q_0} = 049687$	h = 0'9840	e = 0'1782

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
1	t	0	001	90° 00	10° 16	10° 16	0° 00	10° 16	0° 00	0'1811	0	0'1811
2	T	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	M	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	θ	20∞	20'1'0	89 05	"	"	90 00	89 05	0 55	62'7914	∞	"
5	η	16∞	16'1'0	88 51	"	"	"	88 51	1 08	50'2333	"	"
6	ζ	9∞	910	87 58	"	"	"	87 58	2 01	28'2560	"	"
7	ε	4∞	410	85 27	"	"	"	85 27	4 33	12'8508	"	"
8	δ	2∞	320	78 01	"	"	"	78 01	11 59	4'7093	"	"
9	h	∞ ¹⁰ 0	650	75 08	"	"	"	75 08	14 52	3'7674	"	"
10	N	∞ ²⁰ 0	110	72 20	"	"	"	72 20	17 40	3'1395	"	"
11	Q	∞ ¹⁰ ∞	9'10'0	70 30	"	"	"	70 30	19 29	2'8256	"	"
12	γ	∞ ¹⁰ ∞	670	69 37	"	"	"	69 37	20 23	2'6910	"	"
13	l	∞ ¹⁰ ∞	340	66 59	"	"	"	66 59	23 00	2'3546	"	"
14	β	∞ ²⁰ ∞	230	64 28	"	"	"	64 28	25 32	2'0930	"	"
15	a	∞ ⁵⁰ 0	590	60 10	"	"	"	60 10	29 49	1'7442	"	"
16	s	∞ ² 0	120	57 30	"	"	"	57 30	32 30	1'5697	"	"
17	L	∞ ³ 0	130	45 54	"	"	"	45 54	44 05	1'0465	"	"
18	n	01	011	28 32	20 46	10 16	18 26	9 45	18 09	0'1811	0'3332	0'3792
19	O	0 ¹¹ 1	0'11'6	16 31	32 30	"	31 25	8 47	31 01	"	0'6109	0'6371
20	o	02	021	15 12	34 38	"	33 41	8 34	33 15	"	0'6664	0'6906
21	F	0 ¹¹ 4	0'11'4	11 11	43 03	"	42 30	7 36	42 02	"	0'9163	0'9340
22	q	03	031	10 16	45 27	"	44 59	7 18	44 31	"	0'9996	1'0158
23	R	04	041	7 44	53 22	"	53 07	6 12	52 40	"	1'3328	1'3451
24	H	06	061	5 10	63 31	"	63 25	4 37	63 03	"	1'9992	2'0073
25	P	-10	101	90 00	40 51	40 51	0 00	40 51	0 00	0'8649	0	0'8649
26	g	-1/2 0	102	"	18 52	18 52	"	18 52	"	0'3418	"	0'3418
27	z	-1/4 0	104	"	4 36	4 36	"	4 36	"	0'0804	"	0'0804
28	σ	+1/5 1	155	49 30	27 10	21 19	18 26	20 19	17 15	0'3902	0'3332	0'5131
29	r	+1 1	111	74 48	51 49	50 49	"	49 20	11 53	1'2272	"	1'2716
30	μ	-21	211	80 06	62 44	62 22	"	61 07	8 47	1'9110	"	1'9398
31	d	-1	111	68 56	42 49	40 51	"	39 22	14 08	0'8649	"	0'9269
32	λ	+15	151	36 23	64 12	50 49	59 01	32 17	46 27	1'2272	1'6653	2'0686

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg} \varrho$
33	i	+14	141	42° 38'	61° 06'	50° 49'	53° 07'	36° 22'	40° 06'	1·2272	1·3328	1·8117
34	u	+12	121	61 30	54 23'	"	33 41	45 36	22 50	"	0·6664	1·3964
35	v	+1 $\frac{2}{3}$	323	79 44'	51 16'	"	12 31'	50 09	7 59	"	0·2221	1·2471
36	Θ	-12	121	52 23'	47 31'	40 51'	33 41'	35 45	26 45	0·8649	0·6664	1·0919
37	f	-13	131	40 52'	52 53'	"	44 59'	31 27'	37 05'	"	0·9996	1·3218
38	U	+ $\frac{2}{2}$	332	74 04'	61 13'	60 15'	26 33'	57 26	13 55'	1·7502	0·4998	1·8201
39	z	-2	221	70 46'	63 42'	62 22'	33 41'	57 50	17 10	1·9110	0·6664	2·0238
40	a	- $\frac{1}{2}$	112	64 01'	20 49'	18 52'	9 27'	18 38'	8 57'	0·3419	0·1666	0·3804
41	b	- $\frac{1}{2}$	142	27 10	36 50	"	33 41'	15 53	32 14	"	0·6664	0·6675
42	c	- $\frac{5}{2}$	152	22 19	42 00	"	39 47'	14 43	38 15	"	0·8330	0·9004
43	D	- $\frac{1}{2}$	162	18 53	46 34'	"	44 59'	13 36	43 24	"	0·9996	1·0564
44	k	- $\frac{1}{2}$	134	17 31'	48 38	"	47 17	13 03'	45 42	"	1·0829	1·1355
45	x	- $\frac{1}{4}$	182	14 23'	53 59'	"	53 07'	11 36	51 35	"	1·3328	1·3760
46	A	+ $\frac{1}{4}$	124	69 22'	25 18'	23 52'	9 27'	23 35	8 40	0·4426	0·1666	0·4729
47	e	-23	231	62 23	65 07'	62 22'	44 59'	53 30	24 52	1·9110	0·9996	2·1566
48	w	- $\frac{1}{3}$	173	12 10	38 30	9 31'	37 52'	7 32	37 29	0·1676	0·7775	0·7953
49	E	-12 $\frac{3}{3}$	1231	85 22'	85 23	85 22'	44 59'	83 28'	4 37	12·351	0·9996	12·391
50	y	-6·10	6·10·1	61 18	81 48	80 40	73 17'	60 14'	28 23	6·0850	3·3320	6·9377
51	Ψ	- $\frac{0}{7}$	197	4 14'	23 15	1 49	23 11'	1 40'	23 11	0·0318	0·4284	0·4296
52	p	- $\frac{2}{3}$	135	15 19	41 56	13 21	40 54	10 10	40 07'	0·2373	0·8663	0·8982
53	m	- $\frac{5}{3}$	593	57 23	61 40	57 23	44 59'	47 51	28 19	1·5623	0·9996	1·8547

Eulytin.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg} \varrho$
1	c	{ 0 0∞	001 010	— 0° 00'	0° 00' 90 00	0° 00' "	0° 00' 90 00	0° 00' "	0° 00' 90 00	0 "	0 ∞	0 ∞
2	d	{ 01 ∞	011 110	" 45 00	45 00 90 00	" 90 00	45 00 90 00	" 45 00	45 00 "	" 1·0000	1·0000 ∞	1·0000 ∞
3	l	{ + $\frac{1}{3}$ +15	115 151	" 11 18'	15 47' 78 54	11 18' 45 00	11 18' 78 41'	11 06 "	11 06 74 12'	0·2000 1·0000	0·2000 5·0000	0·2828 5·0989
4	qq	{ ± $\frac{1}{2}$ ±12	112 121	45 00 26 34	35 16 65 54'	26 34 45 00	26 34 63 26	24 05' "	24 05' 54 44	0·5000 1·0000	0·5000 2·0000	0·7071 2·2360
5	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1·0000	1·4142

Euxenit.

Rhombisch.

$a = 0.364$	$\lg a = 956110$	$\lg a_0 = 007966$	$\lg p_0 = 992034$	$a_0 = 1.2013$	$p_0 = 0.8324$
$c = 0.303$	$\lg c = 948144$	$\lg b_0 = 051856$	$\lg q_0 = 948144$	$b_0 = 3.3003$	$q_0 = 0.3030$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	b	0∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	c	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	m	∞	110	70 00	"	"	90 00	70 00	20 00	2'7472'	∞	"
4	d	20	201	90 00	59 00'	59 00'	0 00	59 00'	0 00	1'6648	0	1'6648
5	p	1	111	70 00	41 32	39 46'	16 51'	38 32'	13 06'	0'8324	0'3030	0'8859

Fahlerz.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	$\begin{cases} 0 \\ 0\infty \end{cases}$	$\begin{cases} 001 \\ 010 \end{cases}$	$\begin{cases} - \\ 0^\circ 00 \end{cases}$	$\begin{cases} 0^\circ 00 \\ 90 00 \end{cases}$	$\begin{cases} 0^\circ 00 \\ " \end{cases}$	$\begin{cases} 0^\circ 00 \\ 90 00 \end{cases}$	$\begin{cases} 0^\circ 00 \\ " \end{cases}$	$\begin{cases} 0^\circ 00 \\ 90 00 \end{cases}$	$\begin{cases} 0 \\ " \end{cases}$	$\begin{cases} 0 \\ \infty \end{cases}$	$\begin{cases} 0 \\ \infty \end{cases}$
2	a	$\begin{cases} 0\frac{1}{3} \\ 03 \\ \infty 3 \end{cases}$	$\begin{cases} 013 \\ 031 \\ 130 \end{cases}$	$\begin{cases} " \\ " \\ 18 26 \end{cases}$	$\begin{cases} 18 26 \\ 71 34 \\ 90 00 \end{cases}$	$\begin{cases} " \\ " \\ 90 00 \end{cases}$	$\begin{cases} 18 26 \\ 71 34 \\ 90 00 \end{cases}$	$\begin{cases} " \\ " \\ 18 26 \end{cases}$	$\begin{cases} 18 26 \\ 71 34 \\ " \end{cases}$	$\begin{cases} " \\ " \\ 0'3333 \end{cases}$	$\begin{cases} 0'3333 \\ 3'0000 \\ \infty \end{cases}$	$\begin{cases} 0'3333 \\ 3'0000 \\ \infty \end{cases}$
3	e	$\begin{cases} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{cases}$	$\begin{cases} 012 \\ 021 \\ 120 \end{cases}$	$\begin{cases} 0 00 \\ " \\ 26 34 \end{cases}$	$\begin{cases} 26 34 \\ 63 26 \\ 90 00 \end{cases}$	$\begin{cases} 0 00 \\ " \\ 90 00 \end{cases}$	$\begin{cases} 26 34 \\ 63 26 \\ 90 00 \end{cases}$	$\begin{cases} 0 00 \\ " \\ 26 34 \end{cases}$	$\begin{cases} 26 34 \\ 63 26 \\ " \end{cases}$	$\begin{cases} 0 \\ " \\ 0'5000 \end{cases}$	$\begin{cases} 0'5000 \\ 2'0000 \\ \infty \end{cases}$	$\begin{cases} 0'5000 \\ 2'0000 \\ \infty \end{cases}$
4	d	$\begin{cases} 01 \\ \infty \end{cases}$	$\begin{cases} 011 \\ 110 \end{cases}$	$\begin{cases} 0 00 \\ 45 00 \end{cases}$	$\begin{cases} 45 00 \\ 90 00 \end{cases}$	$\begin{cases} 0 00 \\ 90 00 \end{cases}$	$\begin{cases} 45 00 \\ 90 00 \end{cases}$	$\begin{cases} 0 00 \\ 45 00 \end{cases}$	$\begin{cases} 45 00 \\ " \end{cases}$	$\begin{cases} 0 \\ 1'0000 \end{cases}$	$\begin{cases} 1'0000 \\ \infty \end{cases}$	$\begin{cases} 1'0000 \\ \infty \end{cases}$
5	r'	$\begin{cases} -\frac{1}{6} \\ -16 \end{cases}$	$\begin{cases} 116 \\ 161 \end{cases}$	$\begin{cases} " \\ 9 27' \end{cases}$	$\begin{cases} 13 15' \\ 80 40 \end{cases}$	$\begin{cases} 9 27' \\ 45 00 \end{cases}$	$\begin{cases} 9 27' \\ 80 32 \end{cases}$	$\begin{cases} 9 20 \\ " \end{cases}$	$\begin{cases} 9 20 \\ 76 44 \end{cases}$	$\begin{cases} 0'1667 \\ 1'0000 \end{cases}$	$\begin{cases} 0'1667 \\ 6'0000 \end{cases}$	$\begin{cases} 0'2357 \\ 6'0827 \end{cases}$
6	kk'	$\begin{cases} \pm\frac{1}{4} \\ \pm 14 \end{cases}$	$\begin{cases} 114 \\ 141 \end{cases}$	$\begin{cases} 45 00 \\ 14 02 \end{cases}$	$\begin{cases} 19 28 \\ 76 22 \end{cases}$	$\begin{cases} 14 02 \\ 45 00 \end{cases}$	$\begin{cases} 14 02 \\ 75 58 \end{cases}$	$\begin{cases} 13 38 \\ " \end{cases}$	$\begin{cases} 13 38 \\ 70 32 \end{cases}$	$\begin{cases} 0'2500 \\ 1'0000 \end{cases}$	$\begin{cases} 0'2500 \\ 4'0000 \end{cases}$	$\begin{cases} 0'3535 \\ 4'1231 \end{cases}$
7	m	$\begin{cases} +\frac{1}{3} \\ +13 \end{cases}$	$\begin{cases} 113 \\ 131 \end{cases}$	$\begin{cases} 45 00 \\ 18 26 \end{cases}$	$\begin{cases} 25 14' \\ 72 27 \end{cases}$	$\begin{cases} 18 26 \\ 45 00 \end{cases}$	$\begin{cases} 18 26 \\ 71 34 \end{cases}$	$\begin{cases} 17 33 \\ " \end{cases}$	$\begin{cases} 17 33 \\ 64 45' \end{cases}$	$\begin{cases} 0'3333 \\ 1'0000 \end{cases}$	$\begin{cases} 0'3333 \\ 3'0000 \end{cases}$	$\begin{cases} 0'4714 \\ 3'1623 \end{cases}$
8	qq'	$\begin{cases} \pm\frac{1}{2} \\ \pm 12 \end{cases}$	$\begin{cases} 112 \\ 121 \end{cases}$	$\begin{cases} 45 00 \\ 26 34 \end{cases}$	$\begin{cases} 35 16 \\ 65 54' \end{cases}$	$\begin{cases} 26 34 \\ 45 00 \end{cases}$	$\begin{cases} 26 34 \\ 63 26 \end{cases}$	$\begin{cases} 24 05' \\ " \end{cases}$	$\begin{cases} 24 05' \\ 54 44 \end{cases}$	$\begin{cases} 0'5000 \\ 1'0000 \end{cases}$	$\begin{cases} 0'5000 \\ 2'0000 \end{cases}$	$\begin{cases} 0'7071 \\ 2'2360 \end{cases}$
9	A	$\begin{cases} +\frac{5}{9} \\ +1\frac{10}{9} \end{cases}$	$\begin{cases} 559 \\ 595 \end{cases}$	$\begin{cases} 45 00 \\ 29 03' \end{cases}$	$\begin{cases} 38 09' \\ 64 06 \end{cases}$	$\begin{cases} 29 03' \\ 45 00 \end{cases}$	$\begin{cases} 29 03' \\ 60 56' \end{cases}$	$\begin{cases} 25 54 \\ " \end{cases}$	$\begin{cases} 25 54 \\ 51 50' \end{cases}$	$\begin{cases} 0'5556 \\ 1'0000 \end{cases}$	$\begin{cases} 0'5556 \\ 1'8000 \end{cases}$	$\begin{cases} 0'7857 \\ 2'0591 \end{cases}$
10	n	$\begin{cases} +\frac{2}{3} \\ +1\frac{3}{2} \end{cases}$	$\begin{cases} 223 \\ 232 \end{cases}$	$\begin{cases} 45 00 \\ 33 41' \end{cases}$	$\begin{cases} 43 19 \\ 60 59 \end{cases}$	$\begin{cases} 33 41' \\ 45 00 \end{cases}$	$\begin{cases} 33 41' \\ 56 18' \end{cases}$	$\begin{cases} 29 01 \\ " \end{cases}$	$\begin{cases} 29 01 \\ 46 41 \end{cases}$	$\begin{cases} 0'6667 \\ 1'0000 \end{cases}$	$\begin{cases} 0'6667 \\ 1'5000 \end{cases}$	$\begin{cases} 0'9428 \\ 1'8028 \end{cases}$
11	pp'	± 1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
12	B	$\left\{ \begin{array}{l} +\frac{4}{2} 1 \\ +\frac{7}{2} \end{array} \right.$	477	29° 44'	49° 02'	29° 48'	45° 00'	22° 00'	40° 58'	0° 57 14	1° 0000	1° 15 17
			774	45 00	68 00	60 15'	60 15'	40 58	"	1° 75 00	1° 75 00	2° 47 48
13	u	$\left\{ \begin{array}{l} +\frac{1}{2} 1 \\ +2 \end{array} \right.$	122	26 34	48 11'	26 34	45 00	19 28	41 48'	0° 50 00	1° 0000	1° 11 80
			221	45 00	70 31'	63 26	63 26	41 48'	"	2° 00 00	2° 00 00	2° 82 84
14	ww'	$\left\{ \begin{array}{l} \pm\frac{2}{3} 1 \\ \pm\frac{3}{3} 1 \end{array} \right.$	233	33 41'	50 14'	33 41'	45 00	25 14'	39 45'	0° 66 67	1° 0000	1 20 19
			332	45 00	64 45'	56 18'	56 18'	39 45'	"	1° 50 00	1° 50 00	2° 12 13
15	xx'	$\left\{ \begin{array}{l} \pm\frac{1}{3} \frac{2}{3} 1 \\ \pm\frac{1}{3} \frac{3}{3} 1 \\ \pm 23 \end{array} \right.$	123	26 34	36 42	18 26	33 41'	15 30	32 18'	0° 33 33	0° 66 67	0° 74 53
			132	18 26	57 41'	26 34	56 18'	"	53 18	0° 50 00	1° 50 00	1° 58 11
			231	33 41'	74 30	63 26	71 34	32 18'	"	2° 00 00	3° 00 00	3° 60 55
16	ω	$\left\{ \begin{array}{l} +\frac{1}{2} \frac{3}{4} \\ +\frac{1}{3} \frac{4}{3} \\ +34 \end{array} \right.$	134	18 26	38 19'	14 02	36 52	11 18'	36 02'	0° 25 00	0° 75 00	0° 79 06
			143	14 02	53 57'	18 26	53 08	"	51 40'	0° 33 33	1° 33 33	1° 37 43
			341	36 52	78 41'	71 34	75 58	36 02'	"	3° 00 00	4° 00 00	5° 00 00
17	Γ	$\left\{ \begin{array}{l} -\frac{1}{3} \frac{2}{3} 1 \\ -\frac{1}{3} \frac{3}{3} 1 \\ -25 \end{array} \right.$	125	26 34	24 05'	11 18'	21 48	10 31'	21 25	0° 20 00	0° 40 00	0° 44 72
			152	11 18'	68 35	26 34	68 12	"	65 54'	0° 50 00	2° 50 00	2° 54 95
			251	21 48	79 29	63 26	78 41'	21 25	"	2° 00 00	5° 00 00	5° 38 51
18	Θ	$\left\{ \begin{array}{l} -\frac{1}{6} \frac{1}{2} \\ -\frac{1}{3} 2 \\ -36 \end{array} \right.$	136	18 26	27 47'	9 27'	26 34	8 28'	26 15	0° 16 67	0° 50 00	0° 52 71
			163	9 27'	63 45	18 26	63 26	"	62 12'	0° 33 33	2° 00 00	2° 02 76
			361	26 34	81 31'	71 34	80 32	26 15	"	3° 00 00	6° 00 00	6° 70 81
19	Δ	$\left\{ \begin{array}{l} \frac{5}{12} \frac{7}{12} \\ \frac{5}{7} \frac{1}{2} \\ \frac{7}{3} \frac{1}{5} \end{array} \right.$	5° 7' 12	35 32'	35 38	22 37	30 15'	19 47'	28 18	0° 41 67	0° 58 33	0° 71 69
			5° 12' 7	22 37	61 42	35 32	59 44'	"	54 22	0° 71 43	1° 71 43	1° 85 71
			7° 12' 5	30 15'	70 12'	54 27'	67 23	28 18	"	1° 40 00	2° 40 00	2° 77 85

Fairfieldit.

Triklin.

$p_0 = 0.7079$	$\lambda = 78^\circ 33'$	$a = 0.2797$	$\alpha = 102^\circ 09'$	$x_0 = 0.0779$	$d = 0.2132$
$q_0 = 0.2019$	$\mu = 88^\circ 00'$	$b = 1$	$\beta = 94^\circ 33'$	$y_0 = 0.1985$	$\delta = 21^\circ 25'$
$r_0 = 1$	$\nu = 102^\circ 00'$	$c = 0.1976$	$\gamma = 77^\circ 20'$	$h = 0.9770$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	21° 25'	12° 18'	4° 33'	11° 29'	4° 28'	11° 27'	0° 07 97	0° 20 32	0° 21 83
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	102 00	"	90 00	"	78 00	12 00	4° 70 47	"	"
4	o	$\infty 2$	120	69 40	"	"	"	69 40	20 20	2° 69 78	"	"
5	n	$\infty \frac{3}{2}$	230	77 33'	"	"	"	77 33'	12 26'	4° 42 80	"	"
6	m	∞	110	85 29	"	"	"	85 29	4 31	12° 65 8	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
7	g	∞^3	320	90° 13	90° 00	90° 00	90° 00	89° 47	8° 13	266:31	∞	∞
8	μ	∞^2	110	116 45'	"	"	90 00	63 14'	26 45'	1:9834	"	"
9	p	1	111	71 48	39 41'	38 15	14 31'	37 21	11 30	0:7884	0:2591	0:8299
10	q	$\frac{1}{2}$	112	62 31	26 36	23 57'	13 01	23 24'	11 55'	0:4547	0:2311	0:5008
11	r	$\frac{1}{3}$	113	54 56	21 06'	17 32	12 30'	17 08'	11 56'	0:3160	0:2218	0:3860
12	s	14	141	134 28'	47 51	38 15	37 44'	31 56'	31 17'	0:7884	0:7741	1:1049

Faujasit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $tg \varrho$
1	c	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	— 0° 00	0° 00 90 00	0° 00 "	0° 00 90 00	0° 00 "	0° 00 90 00	0 "	0 ∞	0 ∞
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1:0000	1:0000	1:4142

Feldspath-Gruppe

Albit.¹⁾

Triklin.¹⁾

Elemente nach Schuster.

$p_0 = 0:9099$	$\lambda = 86^\circ 20$	$a = 0:6187$	$\alpha = 93^\circ 42$	$x_0 = 0:4500$	$d = 0:4545$
$q_0 = 0:5035$	$\mu = 63^\circ 12$	$b = 1$	$\beta = 116^\circ 48$	$y_0 = 0:0639$	$\delta = 81^\circ 55$
$r_0 = 1$	$\nu = 89^\circ 11$	$c = 0:5641$	$\gamma = 89^\circ 04$	$h = 0:8907$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $lg \varrho$
1	P	0	001	81° 55	27° 02	26° 48	4° 06	26° 44'	3° 40	0:5052	0:0717	0:5103
2	M	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	ζ	∞^5	150	19 46'	"	90 00	"	19 46'	70 13'	0:3595	"	"
4	f	∞^3	130	30 51	"	"	"	30 51	59 09	0:5972	"	"
5	μ	$\infty^{\frac{5}{4}}$	450	54 46'	"	"	"	54 46'	35 13'	1:4163	"	"
6	T	∞	110	60 25	"	"	"	60 25	29 35	1:7615	"	"
7	l	∞^2	110	118 20	"	"	"	61 40	28 20	1:8549	"	"
8	ν	$\infty^{\frac{5}{4}}$	450	124 07	"	"	"	55 53	34 07	1:4760	"	"

¹⁾ Albit Winkeltabelle mit Brezinas Elementen siehe folgende Seite. Vgl. Bemerkungen.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg} \varrho$
9	z	$\infty\bar{3}$	130	148° 43'	90° 00'	90° 00'	90° 00'	31 17	58 43	0°6076	∞	∞
10	e	02	021	22 47'	52 31'	26 48'	50 15'	17 54	47 01	0°5052	1°2023	1°3041
11	n	02	021	154 29'	49 33'	"	46 38'	19 08	43 23	"	1°0588	1°1732
12	ε	$\frac{4}{3}0$	403	87 12'	61 51'	61 49'	5 12'	61 44	2 28	1°8671	0°0912	1°8694
13	x	$\frac{1}{10}$	101	83 41'	27 26'	27 18'	3 16'	27 16	2 54'	0°5162	0°0571	0°5194
14	r	$\frac{4}{3}0$	403	86 30'	40 38'	40 35'	2 59'	40 33	2 16'	0°8567	0°0523	0°8582
15	y	20	201	88 25'	56 58'	56 57'	2 26'	56 56	1 19'	1°5377	0°0425	1°5382
16	ψ	$\frac{5}{2}\frac{2}{1}$	552	113 06'	73 16'	71 54'	52 32'	61 44'	22 04'	3°0588	1°3049	3°3255
17	γ	$\frac{1}{2}\frac{1}{2}$	112	0 54'	19 08'	0 19'	19 08'	0 18'	19 08'	0°0055	0°3471	0°3471
18	p	11	111	39 40'	38 57'	27 18'	31 54'	23 40	28 56	0°5162	0°6224	0°8086
19	Δ	$\frac{4}{4}\frac{4}{3}$	443	46 45'	49 38'	40 35'	38 52'	33 42'	31 28	0°8567	0°8060	1°1763
20	g	22	221	52 39'	62 39'	56 57'	49 33'	44 55'	32 36	1°5377	1°1731	1°9340
21	δ	12	112	178 33'	12 19'	0 19'	12 18'	0 18'	12 18'	0°0055	0°2182	0°2183
22	o	11	111	134 33'	35 55'	27 18'	26 56'	24 43'	24 18'	0°5162	0°5081	0°7243
23	π	15	665	130 54'	43 37'	35 46'	31 58'	31 26'	26 51'	0°7205	0°6241	0°9532
24	σ	$\frac{1}{3}\frac{1}{3}$	443	129 18'	47 54'	40 35'	35 02'	35 03'	28 02'	0°8567	0°7013	1°1072
25	λ	$\frac{3}{3}\frac{2}{2}$	332	127 51'	52 26'	45 45'	38 35'	38 45'	29 06'	1°0269	0°7981	1°3006
26	u	2	221	125 17'	62 02'	56 58'	47 25'	46 08'	30 40'	1°5377	1°0880	1°8836
27	τ	$\frac{1}{2}\frac{1}{2}$	132	179 36'	38 04'	0 19'	38 04'	0 15'	38 04'	0°0055	0°7835	0°7835

Feldspath-Gruppe Albit.¹⁾

Triklin.

Elemente nach Brezina.

$p_0 = 0.8750$	$\lambda = 86^\circ 19'$	$a = 0.6366$	$\alpha = 94^\circ 15'$	$x_0 = 0.4497$	$d = 0.4543$
$q_0 = 0.4987$	$\mu = 63^\circ 18'$	$b = 1$	$\beta = 116^\circ 47'$	$y_0 = 0.0643$	$\delta = 81^\circ 52'$
$r_0 = 1$	$\nu = 90^\circ 15'$	$c = 0.5582$	$\gamma = 87^\circ 52'$	$h = 0.8909$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg} \varrho$
1	P	0	001	81° 51'	27° 01'	26° 47'	4° 07'	26° 43'	3° 40'	0°5048	0°0722	0°5099
2	M	0 ∞	010	0 00'	90 00'	0 00'	90 00'	0 00'	90 00'	0	∞	∞
3	ζ	05	150	19 22'	"	90 00'	"	19 22'	70 38'	0°3515	"	"
4	f	$\infty\bar{3}$	130	30 23'	"	"	"	30 23'	59 37'	0°5862	"	"
5	μ	$\infty\frac{5}{4}$	450	54 42'	"	"	"	54 42'	35 17'	1°4123	"	"
6	T	$\infty\frac{1}{4}$	110	60 30'	"	"	"	60 30'	29 29'	1°7681	"	"
7	l	$\infty\bar{\infty}$	110	119 52'	"	"	"	60 08'	29 52'	1°7413	"	"
8	v	$\infty\frac{1}{2}\frac{1}{2}$	450	125 38'	"	"	"	54 22'	35 38'	1°3951	"	"
9	z	$\infty\bar{3}$	130	149 44'	"	"	"	30 15'	59 44'	0°5834	"	"

1) Albit Winkeltabelle mit Schusters Elementen siehe vorhergehende Seite. Vgl. Bemerkungen.

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
10	e	02	021	22° 57'	52° 18'	26° 47'	50° 00'	17° 58'	46° 46'	0° 5048	1° 1917	1° 2942
11	n	02	021	154 16	49 18	"	46 19	19 13	43 04'	"	1° 0474	1° 1627
12	ε	40	403	87 54	61 09'	61 08'	3 48	61 05	1 50	1° 8144	0° 0664	1° 8154
13	x	10	101	80 54	64 12	25 31	4 22'	25 27'	3 57	0° 4774	0° 0764	0° 4835
14	r	10	103	84 28'	38 57'	38 49'	4 27	38 44'	3 28'	0° 8048	0° 0779	0° 8086
15	y	20	201	86 50	55 37'	55 35	4 37	55 30	2 36'	1° 4595	0° 0807	1° 4618
16	ψ	50	552	114 19'	72 53'	71 20	53 13'	60 33'	23 11	2° 9602	1° 3380	3° 2485
17	γ	12	112	2 13	19 31	0 47	19 30	0 44'	19 30	0° 0137	0° 3542	0° 3545
18	p	11	111	36 53	38 30	25 31	32 28	21 56'	29 51'	0° 4774	0° 6217	0° 7954
19	l	40	443	44 19	49 02'	38 49'	39 30	31 50'	32 42	0° 8048	0° 8242	1° 1520
20	g	22	221	50 34	62 07	55 35	50 12	43 03	34 09	1° 4595	1° 2003	1° 8897
21	δ	12	112	176 11'	11 38'	0 47	11 37	0 46	11 37	0° 0137	0° 2055	2° 0604
22	o	1	111	135 21	34 11'	25 31	25 48	23 15'	23 34	0° 4774	0° 4833	0° 6793
23	τ	10	665	131 25	41 56'	33 58'	30 44	30 05	26 14'	0° 6739	0° 5945	0° 8987
24	σ	10	443	129 42'	46 17'	38 49'	33 45'	33 47	27 30'	0° 8048	0° 6684	1° 0462
25	λ	10	332	128 10	50 55'	44 05	37 16'	37 37	28 40	0° 9685	0° 7611	1° 2317
26	u	22	221	125 26'	60 50	55 35	46 05'	45 21	30 25	1° 4595	1° 0389	1° 7915
27	τ	12	132	178 58'	37 26	0 47	37 26	0 37'	37 25'	0° 0137	0° 7654	0° 7655

Feldspath-Gruppe Anorthit.

Triklin.

$p_0 = 0.8655$	$\lambda = 85^\circ 50'$	$a = 0.6347$	$\alpha = 93^\circ 13'$	$x_0 = 0.4362$	$d = 0.4422$
$q_0 = 0.4948$	$\mu = 63^\circ 56'$	$b = 1$	$\beta = 115^\circ 56'$	$y_0 = 0.0726$	$\delta = 80^\circ 33'$
$r_0 = 1$	$\gamma = 87^\circ 06'$	$c = 0.5501$	$\gamma = 91^\circ 12'$	$h = 0.8969$	

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	P	0	001	80° 33'	26° 14'	25° 56'	4° 37'	25° 52'	4° 10'	0° 4863	0° 0809	0° 4930
2	M	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	h	∞0	100	87 06	"	90 00	"	87 06	2 54	19° 740	"	"
4	l	∞	110	58 04	"	"	"	58 04	31 56	1° 6046	"	"
5	φ	∞2	120	39 54'	"	"	"	39 54'	50 05'	0° 8364	"	"
6	f	∞3	130	29 29'	"	"	"	29 29'	60 30'	0° 5656	"	"
7	T	∞∞	110	117 33	"	"	90 00	62 27	27 33	1° 9171	"	"
8	ξ	∞2	120	137 34	"	"	"	42 26	47 34	0° 9141	"	"
9	z	∞3	130	149 02	"	"	"	30 58	59 02	0° 6001	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x:y)	y'	d' = $\text{tg } \varrho$
10	A	08	081	6° 09'	77° 33'	25° 56'	77° 29'	6° 01'	76° 08'	0'4863	4'5045	4'5305
11	r	06	061	8 09'	73 43'	"	73 34'	7 50'	71 50'	"	3'3911	3'4258
12	e	02	021	22 19'	52 00'	"	49 49'	17 25'	46 48'	"	1'1843	1'2803
13	Θ	$0\frac{2}{3}$	023	47 18'	33 29'	"	24 10'	23 55'	21 58'	"	0'4487	0'6618
14	γ	$0\frac{1}{3}$	013	61 26'	28 58'	"	14 50'	25 11'	13 23'	"	0'2648	0'5538
15	B	$0\frac{1}{3}$	013	101 57'	26 26'	"	5 52'	25 49'	5 17'	"	0'1029	0'4971
16	k	$0\frac{2}{3}$	023	120 32'	29 27'	"	16 00'	25 03'	14 27'	"	0'2868	0'5647
17	n	02	021	154 33'	48 33'	"	45 38'	18 50'	42 36'	"	1'0224	1'1322
18	C	03	031	162 50'	58 44'	"	57 34'	14 37'	54 45'	"	1'5741	1'6475
19	ϑ	04	041	167 07'	65 22'	"	64 48'	11 42'	62 23'	"	2'1258	2'1806
20	c	06	061	171 26'	72 58'	"	72 47'	8 11'	71 00'	"	3'2291	3'2656
21	t	20	201	85 46'	67 33'	67 30'	10 07'	67 10'	3 54'	2'4139	0'1786	2'4205
22	D	$\frac{2}{3}0$	207	82 54'	37 30'	37 18'	5 25'	37 10'	4 19'	0'7617	0'0948	0'7676
23	q	$\frac{2}{3}0$	203	72 47'	9 17'	8 52'	2 46'	8 52'	2 44'	0'1562	0'0495	0'1635
24	E	$\frac{3}{4}0$	304	79 22'	13 31'	13 18'	2 32'	13 17'	2 28'	0'2364	0'0443	0'2406
25	x	10	101	86 09'	25 34'	25 31'	1 50'	25 30'	1 39'	0'4774	0'0321	0'4785
26	y	20	201	89 20'	55 15'	55 14'	0 57'	55 14'	0 33'	1'4412	0'0167	1'4413
27	m	1	111	64 50'	58 02'	55 24'	34 16'	50 09'	21 09'	1'4501	0'6814	1'6023
28	a	11	111	106 13'	56 29'	"	22 52'	53 11'	13 28'	"	0'4219	1'5102
29	ϱ	13	131	136 27'	64 35'	"	56 45'	38 29'	40 53'	"	1'5253	2'1046
30	p	11	111	39 16'	37 01'	25 31'	30 16'	22 24'	27 47'	0'4774	0'5838	0'7542
31	o	1	111	137 25'	35 12'	"	27 27'	22 57'	25 07'	"	0'5195	0'7056
32	π	13	131	163 36'	59 24'	"	58 21'	14 03'	55 40'	"	1'6229	1'6917
33	β	24	241	45 20'	73 35'	67 30'	67 15'	43 01'	42 23'	2'4139	2'3853	3'3936
34	b	24	241	130 12'	72 24'	"	63 45'	46 52'	37 49'	"	2'0281	3'1528
35	w	24	241	33 21'	69 07'	55 14'	65 27'	30 54'	51 18'	1'4412	2'1901	2'6217
36	g	22	221	52 59'	61 00'	"	47 22'	44 18'	31 46'	"	1'0865	1'8049
37	u	2	221	127 51'	61 17'	"	48 14'	43 49'	32 33'	"	1'1201	1'8253
38	v	24	241	147 03'	69 19'	"	65 17'	30 35'	51 44'	"	2'2234	2'6497
39	μ	42	421	73 38'	74 06'	73 28'	44 41'	67 20'	15 43'	3'3688	0'9889	3'5109
40	d	42	421	109 52'	74 24'	"	50 36'	64 56'	19 07'	"	1'2178	3'5820
41	δ	$\frac{1}{2}$	112	178 50'	12 22'	0 15'	12 22'	0 15'	12 22'	0'0044	0'2193	0'2194
42	s	$\frac{4}{3}\frac{2}{3}$	423	64 20'	41 32'	38 36'	20 59'	36 42'	16 41'	0'7986	0'3836	0'8860
43	i	$\frac{4}{3}\frac{2}{3}$	423	113 47'	41 07'	"	19 23'	36 59'	15 22'	"	0'3520	0'8728

Feldspath-Gruppe Hyalophan.

Monoklin.

$a = 0.6584$	$\lg a = 981849$	$\lg a_o = 007718$	$\lg p_o = 992282$	$a_o = 1.1945$	$p_o = 0.8372$
$c = 0.5512$	$\lg c = 974131$	$\lg b_o = 025869$	$\lg q_o = 969650$	$b_o = 1.8142$	$q_o = 0.4972$
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 64^\circ 25'$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 995519$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 963531$	$\lg \frac{p_o}{q_o} = 022632$	$h = 0.9020$	$e = 0.4318$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	P	o	001	90° 00	25° 35	25° 35	0° 00	25° 35	0° 00	0.4787	0	0.4787
2	M	o∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	k	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	T	∞	110	59 18	"	"	90 00	59 18	30 42	1.6839	∞	"
5	z	∞3	130	29 18	"	"	"	29 18	60 41	0.5613	"	"
6	F	— $\frac{1}{2}$ o	102	90 00	0 46	0 46	0 00	0 46	0 00	0.0135	0	0.0135
7	x	—10	101	"	24 12	24 12	"	24 12	"	0.4494	"	0.4494
8	ω	— $\frac{3}{4}$ o	302	"	42 25	42 25	"	42 25	"	0.9135	"	0.9135
9	o	—1	111	39 11	35 25	24 12	28 52	21 29	26 41	0.4494	0.5512	0.7112
10	ψ	—14	141	11 31	66 02	"	65 36	10 31	63 33	"	2.2048	2.2501

Feldspath-Gruppe Orthoklas.

Monoklin.

$a = 0.6585$	$\lg a = 981856$	$\lg a_o = 007395$	$\lg p_o = 992605$	$a_o = 1.1856$	$p_o = 0.8434$
$c = 0.5554$	$\lg c = 974461$	$\lg b_o = 025539$	$\lg q_o = 969809$	$b_o = 1.8005$	$q_o = 0.4990$
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 63^\circ 57'$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 995348$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 964262$	$\lg \frac{p_o}{q_o} = 022796$	$h = 0.8984$	$e = 0.4392$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	P	o	001	90° 00	26° 03	26° 03	0° 00	26° 03	0° 00	0.4888	0	0.4888
2	M	o∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	k	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	ζ	2∞	210	73 31	"	"	90 00	73 31	16 28	3.3884	∞	"
5	T	∞	110	59 23	"	"	"	59 23	30 36	1.6902	"	"

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \rho$
6	L	$\infty 2$	120	40° 12	90° 00	90° 00	90° 00	40° 12	49° 48	0·8451	∞	∞
7	z	$\infty 3$	130	29 24	"	"	"	29 24	60 36	0·5634	"	"
8	p	$\infty 9$	190	10 38	"	"	"	10 38	79 22	0·1878	"	"
9	h	$0 \frac{2}{3}$	023	52 51'	31 31	26 03	20 19	24 37'	18 24	0·4888	0'3703	0·6132
10	n	02	021	23 45	50 31	"	47 03	18 06'	44 56'	"	1'1108	1'2136
11	i	06	061	8 21	73 28	"	73 18	8 00	71 32	"	3'3324	3'3681
12	B	$+\frac{5}{10}$	501	90 00	79 06	79 06	0 00	79 06	0 00	5'1826	0	5'1826
13	t	$+\frac{2}{10}$	201	"	67 05'	67 05'	"	67 05'	"	2'3663	"	2'3663
14	q	$-\frac{2}{10}$	203	90 00	7 48	7 48	"	7 48	"	0'1370	"	0'1370
15	C	$-\frac{5}{10}$	506	"	16 21	16 21	"	16 21	"	0'2934	"	0'2934
16	x	$-\frac{1}{10}$	101	"	24 13'	24 13'	"	24 13'	"	0'4499	"	0'4499
17	θ	$-\frac{9}{10}$	908	"	29 34	29 34	"	29 34	"	0'5672	"	0'5672
18	l	$-\frac{7}{10}$	706	"	31 14	31 14	"	31 14	"	0'6063	"	0'6063
19	Ω	$-\frac{5}{10}$	504	"	34 23'	34 23'	"	34 23'	"	0'6845	"	0'6845
20	r	$-\frac{4}{10}$	403	"	37 20	37 20	"	37 20	"	0'7627	"	0'7627
21	y	-20	201	"	54 14'	54 14'	"	54 14'	"	1'3886	"	1'3886
22	H	-30	301	"	66 45	66 45	"	66 45	"	2'3274	"	2'3274
23	m	+1	111	68 44'	56 52	54 59'	29 03	51 18	17 40'	1'4276	0'5554	1'5318
24	g	$-\frac{1}{2}$	112	4 01	15 33'	1 07	15 31	1 03'	15 31	0'0195	0'2777	0'2784
25	o	-1	111	39 00'	35 33'	24 13'	29 03	21 28	26 52	0'4499	0'5554	0'7148
26	σ	$-\frac{1}{3}$	443	45 51	46 45	37 20	36 31'	31 30'	30 29'	0'7628	0'7405	1'0632
27	u	-2	221	51 20'	60 39	54 14'	48 00	42 54	32 59'	1'3886	1'1108	1'7783
28	s	-13	113	15 06'	59 55	24 13'	59 02	13 02	56 39	0'4499	1'6662	1'7259
29	d	+24	241	46 48'	72 52'	67 05'	65 46	44 10	40 51	2'3664	2'2216	3'2458
30	v	-24	241	32 00'	69 06'	54 14'	"	29 41	52 24	1'3886	"	2'6199
31	e	-26	261	22 37'	74 31'	"	73 18	21 45'	62 49'	"	3'3324	3'6102
32	A	$-\frac{10}{9}$	10'1'9	83 39	29 09	29 00	3 32	28 57	3 05'	0'5542	0'0617	0'5576
33	D	-98	981	60 50	83 44'	82 50'	77 19	60 13'	28 59	7'9600	4'4432	9'1162
34	?b	-12'10	12'10'1	62 45'	85 17'	84 42	79 47'	62 23	27 08'	10'7870	5'5540	12'133

Fergusonit.

Tetragonal. Pyramidal-hemiedrisch.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1'4641 \quad | \lg c = 016557 \quad | \lg a_0 = 983443 \quad | a_0 = 0'6830$$

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $tg \rho$
1	i	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	r	$\infty \frac{2}{3}$	230	33° 41'	90 00	90 00	90 00	33 41'	56 18'	0'6667	∞	∞
3	s	1	111	45 00	64 13	55 40	55 40	39 33	39 33	1'4640	1'4640	2'0704
4	z	23	231	33 41'	79 16'	71 08'	77 10'	33 01'	54 50	2'9280	4'3920	5'2785

Ferronatrit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 0.5528 \quad \lg c = 974257 \quad \lg a_0 = 049599 \quad \lg p_0 = 956648 \quad a_0 = 3.1332 \quad p_0 = 0.3685 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	M	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	s	$+\frac{1}{2}$	1122	"	17 42	9 04	15 27	8 44	15 16	0.1596	0.2764	0.3191
5	Rr	± 1	1121	"	32 33	17 42	28 56	15 36	27 46	0.3191	0.5527	0.6383

Feuerblende.

Rhombisch.

$$a = 0.5024 \quad \lg a = 970105 \quad \lg a_0 = 985305 \quad \lg p_0 = 014695 \quad a_0 = 0.7129 \quad p_0 = 1.4026$$

$$c = 0.7047 \quad \lg c = 984800 \quad \lg b_0 = 015200 \quad \lg q_0 = 984800 \quad b_0 = 1.4191 \quad q_0 = 0.7047$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	b	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	c	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	d	∞	110	63 19'	"	"	90 00	63 19'	26 40'	1.9904	∞	"
5	δ	01	011	0 00	35 10'	0 00	35 10'	0 00	35 10'	0	0.7047	0.7047
6	s	02	021	"	54 38'	"	54 38'	"	54 38'	"	1.4094	1.4094
7	m	04	041	"	70 28	"	70 28	"	70 28	"	2.8187	2.8187
8	o	$\frac{4}{3}$	449	63 19'	34 54	31 56'	17 23'	30 45	14 53	0.6234	0.3132	0.6977
9	p	1	111	"	57 30	54 01	35 10'	48 54'	22 15	1.4026	0.7047	1.5697
10	π	2	221	"	72 20	70 23	54 38'	58 22	25 19'	2.8053	1.4094	3.1394

Fichtelit.

Monoklin.

$a = 1.415$	$\lg a = 0.15076$	$\lg a_o = 991171$	$\lg p_o = 008829$	$a_o = 0.8160$	$p_o = 1.2257$
$c = 1.734$	$\lg c = 0.23905$	$\lg b_o = 976095$	$\lg q_o = 014140$	$b_o = 0.5767$	$q_o = 1.3848$
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 53^\circ 00$	$\lg h = \left. \begin{matrix} \\ \sin \mu \end{matrix} \right\} 990235$	$\lg e = \left. \begin{matrix} \\ \cos \mu \end{matrix} \right\} 977946$	$\lg \frac{p_o}{q_o} = 994689$	$h = 0.7987$	$e = 0.6018$

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} e$
1	p	o	001	90° 00	37° 00	37° 00	0° 00	37° 00	0° 00	0.7535	o	0.7535
2	o	∞	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	m	∞	110	41 30'	"	"	90 00	41 30'	48 29'	0.8849	∞	"
4	i	$\frac{1}{2} 10$	101	90 00	66 23'	66 23'	0 00	66 23'	0 00	2.2882	o	2.2882

Fiedlerit.

Monoklin.

$a = 0.6554$	$\lg a = 981651$	$\lg a_o = 986639$	$\lg p_o = 013361$	$a_o = 0.7021$	$p_o = 1.3602$
$c = 0.8915$	$\lg c = 995012$	$\lg b_o = 004988$	$\lg q_o = 993942$	$b_o = 1.1217$	$q_o = 0.8698$
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 77^\circ 20$	$\lg h = \left. \begin{matrix} \\ \sin \mu \end{matrix} \right\} 998930$	$\lg e = \left. \begin{matrix} \\ \cos \mu \end{matrix} \right\} 934100$	$\lg \frac{p_o}{q_o} = 019419$	$h = 0.9757$	$e = 0.2193$

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} e$
1	c	o	001	90° 00	12° 40	12° 40	0° 00	12° 40	0° 00	0.2247	o	0.2247
2	a	∞	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	n	∞	110	57 24	"	"	90 00	57 24	32 36	1.5637	∞	"
4	m	$\infty \frac{5}{4}$	450	51 22	"	"	"	51 22	38 38	1.2510	"	"
5	y	$-\frac{4}{3} 0$	403	90 00	58 32	58 32	0 00	58 32	0 00	1.6340	o	1.6340
6	x	$-\frac{2}{3} 0$	203	"	35 10	35 10	"	35 10	"	0.7046	"	0.7046
7	e	$+\frac{1}{6} 1$	166	27 09	45 03	24 34	41 43	18 50	39 02	0.4571	0.8915	1.0019
8	i	$+\frac{4}{7} 1$	477	48 53	53 35	45 36	"	37 19	31 57	1.0214	"	1.3557
9	o	$+\frac{4}{3} 1$	455	56 22	58 09	53 16	"	45 00	28 04	1.3401	"	1.6095
10	u	$+\frac{1}{6} 1$	111	61 09	61 35	58 18	"	50 23	25 06	1.6189	"	1.8482
11	p	$-\frac{1}{3} 1$	133	15 04	42 43	13 29	"	10 19	40 55	0.2399	"	0.9232

Fillowit.

Monoklin.

$a = 1.7303$	$\lg a = 0.23812$	$\lg a_0 = 0.08614$	$\lg p_0 = 991386$	$a_0 = 1.2194$	$p_0 = 0.8201$
$c = 1.4190$	$\lg c = 0.15198$	$\lg b_0 = 934802$	$\lg q_0 = 015198$	$b_0 = 0.7047$	$q_0 = 1.4190$
$\mu = \left. \begin{matrix} 89^\circ 51' \\ 180 - \beta \end{matrix} \right\}$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 0$	$\lg e = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 746373$	$\lg \frac{p_0}{q_0} = 976188$	$h = 1$	$e = 0.0029$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	c	0	001	90° 00'	0° 09'	0° 09'	0° 00'	0° 09'	0° 00'	0° 0029	0	0° 0029
2	d	$\frac{1}{2} 20$	201	"	58 40'	58 40'	"	58 40'	"	1° 6430'	"	1° 6430'
3	p	-1	111	29 56	58 35'	39 15'	54 49'	25 12'	47 41'	0° 8172	1° 4190	1° 6375

Fischerit.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 0.22582; \quad \frac{p_0}{q_0} = 1.682; \quad \frac{a}{b} = 0.594$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	b	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	t	0∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	59 16	"	90 00	"	59 16	30 44	1° 6820	"	"
4	g	∞2	120	40 04	"	"	"	40 04	49 56	0° 8410	"	"

Flinkit.

Rhombisch.

$a = 0.4131$	$\lg a = 961606$	$\lg a_0 = 974765$	$\lg p_0 = 025235$	$a_0 = 0.5593$	$p_0 = 1.7879$
$c = 0.7386$	$\lg c = 986841$	$\lg b_0 = 013159$	$\lg q_0 = 986841$	$b_0 = 1.3539$	$q_0 = 0.7386$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	a	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	0∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	l	∞	110	67 33	"	90 00	"	67 33	22 27	2° 4207	"	"
4	e	10	101	90 00	60 47	60 47	0 00	60 47	0 00	1° 7879	0	1° 7879
5	k	1	111	67 33	62 40	"	36 27	55 11'	19 49'	"	0° 7386	1° 9345

Fluellit.

Rhombisch.

$a = 0.770$	$\lg a = 988649$	$\lg a_o = 961372$	$\lg p_o = 038628$	$a_c = 0.4109$	$p_o = 2.434$
$c = 1.874$	$\lg c = 027277$	$\lg b_o = 972723$	$\lg q_o = 027277$	$b_o = 0.5336$	$q_o = 1.874$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	r	I	111	52 24	71 58	68 00	61 55	48 53	35 27	2.4338	1.8740	3.0716

Fluocerit.

Hexagonal.

$c = 2.6804$	$\lg c = 042820$	$\lg a_o = 981036$	$\lg p_o = 025211$	$a_o = 0.6462$	$p_o = 1.7870$	(G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	m	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	p	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	n	10	1011	0 00	60 46	0 00	60 46	0 00	60 46	o	1.7870	1.7870
5	r	$\frac{1}{2}$	1122	30 00	57 08	37 44	53 16	24 50	46 40	0.7738	1.3402	1.5475

Flufsspath.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} — \\ 0°00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} o \\ " \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$
2	C	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 06 \\ \infty6 \end{array} \right.$	$\left\{ \begin{array}{l} 016 \\ 061 \\ 160 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 9 27' \end{array} \right.$	$\left\{ \begin{array}{l} 9 27' \\ 80 32' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 9 27' \\ 80 32' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 9 27' \end{array} \right.$	$\left\{ \begin{array}{l} 9 27' \\ 80 32' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 0.1667 \end{array} \right.$	$\left\{ \begin{array}{l} 0.1667 \\ 6.0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0.1667 \\ 6.0000 \\ \infty \end{array} \right.$
3	ε	$\left\{ \begin{array}{l} 0\frac{1}{3} \\ 05 \\ \infty5 \end{array} \right.$	$\left\{ \begin{array}{l} 015 \\ 051 \\ 150 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 11 18' \end{array} \right.$	$\left\{ \begin{array}{l} 11 18' \\ 78 41' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 11 18' \\ 78 41' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ " \\ 11 18' \end{array} \right.$	$\left\{ \begin{array}{l} 11 18' \\ 78 41' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} o \\ " \\ 0.2000 \end{array} \right.$	$\left\{ \begin{array}{l} 0.2000 \\ 5.0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0.2000 \\ 5.0000 \\ \infty \end{array} \right.$

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
4	A	$\left\{ \begin{array}{l} 0 \\ 0 \\ \infty \end{array} \right\} \begin{array}{l} 010 \\ 010 \\ 210 \end{array}$	029	0°00	12°31'	0°00	12°31'	0°00	12°31'	0	0'2222	0'2222
			092	"	77 28'	"	77 28'	"	77 28'	"	4'5000	4'5000
			290	12 31'	90 00	90 00	90 00	12 31'	"	0'2222	∞	∞
5	f	$\left\{ \begin{array}{l} 0 \\ 04 \\ \infty \end{array} \right\} \begin{array}{l} 1 \\ 2 \\ 4 \end{array}$	014	0 00	14 02	0 00	14 02	0 00	14 02	0	0'2500	0'2500
			041	"	75 58	"	75 58	"	75 58	"	4'0000	4'0000
			140	14 02	90 00	90 00	90 00	14 02	"	0'2500	∞	∞
6	a	$\left\{ \begin{array}{l} 0 \\ 03 \\ \infty \end{array} \right\} \begin{array}{l} 1 \\ 3 \\ 3 \end{array}$	013	0 00	18 26	0 00	18 26	0 00	18 26	0	0'3333	0'3333
			031	"	71 34	"	71 34	"	71 34	"	3'0000	3'0000
			130	18 26	90 00	90 00	90 00	18 26	"	0'3333	∞	∞
7	g	$\left\{ \begin{array}{l} 0 \\ 0 \\ \infty \end{array} \right\} \begin{array}{l} 2 \\ 2 \\ 210 \end{array}$	025	0 00	21 48	0 00	21 48	0 00	21 48	0	0'4000	0'4000
			052	"	68 12	"	68 12	"	68 12	"	2'5000	2'5000
			250	21 48	90 00	90 00	90 00	21 48	"	0'4000	∞	∞
8	B	$\left\{ \begin{array}{l} 0 \\ 0 \\ \infty \end{array} \right\} \begin{array}{l} 3 \\ 3 \\ 3 \end{array}$	037	0 00	23 12	0 00	23 12	0 00	23 12	0	0'4286	0'4286
			073	"	66 48	"	66 48	"	66 48	"	2'3333	2'3333
			370	23 12	90 00	90 00	90 00	23 12	"	0'4286	∞	∞
9	e	$\left\{ \begin{array}{l} 0 \\ 02 \\ \infty \end{array} \right\} \begin{array}{l} 1 \\ 2 \\ 2 \end{array}$	012	0 00	26 34	0 00	26 34	0 00	26 34	0	0'5000	0'5000
			021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
			120	26 34	90 00	90 00	90 00	26 34	"	0'5000	∞	∞
10	l	$\left\{ \begin{array}{l} 0 \\ 0 \\ \infty \end{array} \right\} \begin{array}{l} 3 \\ 3 \\ 310 \end{array}$	035	0 00	30 58	0 00	30 58	0 00	30 58	0	0'6000	0'6000
			053	"	59 02	"	59 02	"	59 02	"	1'6667	1'6667
			350	30 58	90 00	90 00	90 00	30 58	"	0'6000	∞	∞
11	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right\}$	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
12	v	$\left\{ \begin{array}{l} 1 \\ 1 \\ 1 \end{array} \right\} \begin{array}{l} 12 \\ 12 \\ 12 \end{array}$	1'1'12	"	6 43'	4 45'	4 45'	4 45'	4 45'	0'0833	0'0833	0'1179
			1'12'1	4 46'	85 15'	45 00'	85 14'	"	83 17'	1'0000	12'000	12'041
13	D	$\left\{ \begin{array}{l} 1 \\ 18 \end{array} \right\}$	118	45 00	10 01'	7 07'	7 07'	7 04'	7 04'	0'1250	0'1250	0'1768
			181	7 07'	82 56'	45 00'	82 52'	"	79 59'	1'0000	8'0000	8'0622
14	k	$\left\{ \begin{array}{l} 1 \\ 14 \end{array} \right\}$	114	45 00	19 28	14 02	14 02	13 38	13 38	0'2500	0'2500	0'3535
			141	14 02	76 22	45 00	75 58	"	70 32	1'0000	4'0000	4'1231
15	λ	$\left\{ \begin{array}{l} 2 \\ 17 \end{array} \right\} \begin{array}{l} 2 \\ 2 \end{array}$	227	45 00	22 00	15 57	15 57	15 21'	15 21'	0'2857	0'2857	0'4041
			272	15 56'	74 38'	45 00	74 03'	"	68 00	1'0000	3'5000	3'6401
16	m	$\left\{ \begin{array}{l} 1 \\ 13 \end{array} \right\}$	113	45 00	25 14'	18 26	18 26	17 33	17 33	0'3333	0'3333	0'4714
			131	18 26	72 27	45 00	71 34	"	64 45'	1'0000	3'0000	3'1623
17	M	$\left\{ \begin{array}{l} 3 \\ 13 \end{array} \right\} \begin{array}{l} 3 \\ 3 \end{array}$	338	45 00	27 56'	20 33'	20 33'	19 21	19 21	0'3750	0'3750	0'5303
			383	20 33'	70 39	45 00	69 26'	"	62 03'	1'0000	2'6667	2'8480
18	q	$\left\{ \begin{array}{l} 1 \\ 12 \end{array} \right\}$	112	45 00	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
19	n	$\left\{ \begin{array}{l} 2 \\ 13 \end{array} \right\} \begin{array}{l} 2 \\ 2 \end{array}$	223	45 00	43 19	33 41'	33 41'	29 01	29 01	0'6667	0'6667	0'9428
			232	33 41'	60 59	45 00	56 18'	"	46 41	1'0000	1'5000	1'8028
20	p	I	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
21	φ	$\left\{ \begin{array}{l} \frac{1}{2} 1 \\ 4 \end{array} \right.$	144	14° 02'	45° 52'	14° 02'	45° 00'	10° 01'	44° 08'	0'2500	1'0000	1'0308
			441	45 00	79 58	75 58	75 58	44 08	"	4'0000	4'0000	5'6567
22	v	$\left\{ \begin{array}{l} \frac{1}{3} 1 \\ 3 \end{array} \right.$	133	18 26	46 30	18 26	45 00	13 16	43 29	0'3333	1'0000	1'0541
			331	45 00	76 44	71 34	71 34	43 29	"	3'0000	3'0000	4'2426
23	u	$\left\{ \begin{array}{l} \frac{1}{2} 1 \\ 2 \end{array} \right.$	122	26 34	48 11	26 34	45 00	19 28	41 48	0'5000	1'0000	1'1180
			221	45 00	70 31	63 26	63 26	41 48	"	2'0000	2'0000	2'8284
24	w	$\left\{ \begin{array}{l} \frac{2}{3} 1 \\ \frac{3}{2} \end{array} \right.$	233	33 41	50 14	33 41	45 00	25 14	39 45	0'6667	1'0000	1'2019
			332	45 00	64 45	56 18	56 18	39 45	"	1'5000	1'5000	2'1213
25	N	$\left\{ \begin{array}{l} \frac{3}{4} 1 \\ \frac{4}{3} \end{array} \right.$	344	36 52	51 20	36 52	45 00	27 56	38 39	0'7500	1'0000	1'2500
			443	45 00	62 03	53 08	53 08	38 39	"	1'3333	1'3333	1'8856
26	x	$\left\{ \begin{array}{l} \frac{1}{2} \frac{2}{3} \\ \frac{1}{2} \frac{3}{2} \\ 23 \end{array} \right.$	123	26 34	36 42	18 26	33 41	15 30	32 18	0'3333	0'6667	0'7453
			132	18 26	57 41	26 34	56 18	"	53 18	0'5000	1'5000	1'5811
			231	33 41	74 30	63 26	71 34	32 18	"	2'0000	3'0000	3'6055
27	ω	$\left\{ \begin{array}{l} \frac{1}{4} \frac{2}{3} \\ \frac{1}{3} \frac{4}{3} \\ 34 \end{array} \right.$	134	18 26	38 19	14 02	36 52	11 18	36 02	0'2500	0'7500	0'7906
			143	14 02	53 57	18 26	53 08	"	51 40	0'3333	1'3333	1'3744
			341	36 52	78 41	71 34	75 58	36 02	"	3'0000	4'0000	5'0000
28	ψ	$\left\{ \begin{array}{l} \frac{1}{4} \frac{2}{2} \\ \frac{1}{2} \frac{2}{2} \\ 24 \end{array} \right.$	124	26 34	29 12	14 02	26 34	12 36	25 52	0'2500	0'5000	0'5590
			142	14 02	64 07	26 34	63 26	"	60 47	0'5000	2'0000	2'0615
			241	26 34	77 23	63 26	75 58	25 52	"	2'0000	4'0000	4'4721
29	Φ	$\left\{ \begin{array}{l} \frac{1}{8} \frac{4}{4} \\ \frac{1}{2} \frac{4}{4} \\ 28 \end{array} \right.$	128	"	15 37	7 07	14 02	6 55	13 56	0'1250	0'2500	0'2795
			182	7 07	76 04	26 34	75 58	"	74 23	0'5000	4'0000	4'0311
			281	14 02	83 05	63 26	82 52	13 56	"	2'0000	8'0000	8'2462
30	Γ	$\left\{ \begin{array}{l} \frac{3}{20} \frac{10}{10} \\ \frac{1}{4} \frac{10}{10} \\ \frac{1}{4} \frac{20}{3} \end{array} \right.$	3'14'20	12 05'	35 36	8 32	34 59'	7 00'	34 41'	0'1500	0'7000	0'7159
			3'20'14	8 32	55 18	12 05'	55 00'	"	54 24	0'2143	1'4286	1'4445
			14'20'3	34 59'	82 59	77 54	81 28	34 41'	"	4'6667	6'6667	8'1378
31	Δ	$\left\{ \begin{array}{l} \frac{3}{11} \frac{5}{11} \\ \frac{1}{3} \frac{5}{3} \\ \frac{5}{3} \frac{11}{3} \end{array} \right.$	3'5'11	30 58	27 55	15 15	24 26	13 56	23 40	0'2727	0'4545	0'5301
			3'11'5	15 15	66 19	30 58	65 33	"	62 04	0'6000	2'2000	2'2804
			5'11'3	24 26	76 03	59 02	74 44	23 40	"	1'6667	3'6667	4'0277
32	Θ	$\left\{ \begin{array}{l} \frac{3}{10} \frac{2}{5} \\ \frac{3}{4} \frac{5}{2} \\ \frac{4}{3} \frac{10}{3} \end{array} \right.$	3'4'10	36 52	26 34	16 42	21 48	15 34	20 58	0'3000	0'4000	0'5000
			3'10'4	16 42	69 02	36 52	68 12	"	63 26	0'7500	2'5000	2'6100
			4'10'3	21 48	74 26	53 08	73 18	20 58	"	1'3333	3'3333	3'5901
33	Λ	$\left\{ \begin{array}{l} \frac{2}{7} \frac{7}{7} \\ \frac{2}{3} \frac{7}{3} \\ \frac{2}{2} \frac{7}{2} \end{array} \right.$	237	33 41	27 15	15 56	23 12	14 43	22 23	0'2857	0'4286	0'5151
			273	15 56	67 36	33 41	66 48	"	62 45	0'6667	2'3333	2'4267
			372	23 12	75 17	56 18	74 03	22 23	"	1'5000	3'5000	3'8079
34	Ξ	$\left\{ \begin{array}{l} \frac{1}{3} \frac{7}{3} \\ \frac{1}{3} \frac{7}{3} \\ 37 \end{array} \right.$	137	18 26	24 18	8 08	23 12	7 29	22 59	0'1429	0'4286	0'4518
			173	8 08	67 00	18 26	66 48	"	65 41	0'3333	2'3333	2'3570
			371	23 12	82 31	71 34	81 52	22 59	"	3'0000	7'0000	7'6157
35	T	$\left\{ \begin{array}{l} \frac{2}{5} \frac{2}{5} \\ \frac{1}{3} \frac{5}{2} \\ 3 \frac{1}{2} \end{array} \right.$	2'6'15	18 26	22 51	7 35	21 48	7 03	21 37	0'1333	0'4000	0'4216
			2'15'6	7 35	68 22	18 26	68 12	"	67 08	0'3333	2'5000	2'5221
			6'15'2	21 48	82 56	71 34	82 24	21 37	"	3'0000	7'5000	8'0762
36	Σ	$\left\{ \begin{array}{l} \frac{2}{5} \frac{5}{5} \\ \frac{1}{3} \frac{5}{2} \\ 3 \frac{2}{2} \end{array} \right.$	2'6'25	18 26	14 12	4 34	13 29	4 27	13 27	0'0800	0'2400	0'2530
			2'25'6	4 34	76 32	18 26	76 30	"	75 48	0'3333	4'1667	4'1799
			6'25'2	13 29	85 33	71 34	85 25	13 27	"	3'0000	12'5000	12'855

Franklinit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{matrix} 0 \\ 0\infty \end{matrix}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} — \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	d	$\begin{matrix} 01 \\ \infty \end{matrix}$	$\begin{matrix} 011 \\ 110 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 90 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ " \end{matrix}$	$\begin{matrix} " \\ 1'0000 \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$
3	m	$\begin{matrix} \frac{1}{3} \\ 13 \end{matrix}$	$\begin{matrix} 113 \\ 131 \end{matrix}$	$\begin{matrix} " \\ 18 26 \end{matrix}$	$\begin{matrix} 25 14' \\ 72 27 \end{matrix}$	$\begin{matrix} 18 26 \\ 45 00 \end{matrix}$	$\begin{matrix} 18 26 \\ 71 34 \end{matrix}$	$\begin{matrix} 17 33 \\ " \end{matrix}$	$\begin{matrix} 17 33 \\ 64 45' \end{matrix}$	$\begin{matrix} 0'3333 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'3333 \\ 3'0000 \end{matrix}$	$\begin{matrix} 0'4714 \\ 3'1623 \end{matrix}$
4	q	$\begin{matrix} \frac{1}{2} \\ 12 \end{matrix}$	$\begin{matrix} 112 \\ 121 \end{matrix}$	$\begin{matrix} 45 00 \\ 26 34 \end{matrix}$	$\begin{matrix} 35 16 \\ 65 54' \end{matrix}$	$\begin{matrix} 26 34 \\ 45 00 \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \end{matrix}$	$\begin{matrix} 24 05' \\ " \end{matrix}$	$\begin{matrix} 24 05' \\ 54 44 \end{matrix}$	$\begin{matrix} 0'5000 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'5000 \\ 2'0000 \end{matrix}$	$\begin{matrix} 0'7071 \\ 2'2360 \end{matrix}$
5	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
6	u	$\begin{matrix} \frac{1}{2} 1 \\ 2 \end{matrix}$	$\begin{matrix} 122 \\ 221 \end{matrix}$	$\begin{matrix} 26 34 \\ 45 00 \end{matrix}$	$\begin{matrix} 48 11' \\ 70 31' \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \end{matrix}$	$\begin{matrix} " \\ 63 26 \end{matrix}$	$\begin{matrix} 19 28 \\ 41 48' \end{matrix}$	$\begin{matrix} 41 48' \\ " \end{matrix}$	$\begin{matrix} 0'5000 \\ 2'0000 \end{matrix}$	$\begin{matrix} " \\ 2'0000 \end{matrix}$	$\begin{matrix} 1'1180 \\ 2'8284 \end{matrix}$

Freieslebenit.

Monoklin.

a = 0'5871	lg a = 976871	lg a ₀ = 980130	lg p ₀ = 019870	a _c = 0'6328	p ₀ = 1.5802
c = 0'9277	lg c = 996741	lg b ₀ = 003259	lg q ₀ = 996708	b ₀ = 1'0779	q ₀ = 0'9270
$\mu = \frac{1}{180} - \beta \} 87^\circ 46'$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 999967$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 859072$	lg $\frac{p_0}{q_0}$ = 023162	h = 0'9992	e = 0'0390

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	2°14	2°14	0°00	2°14	0°00	0'0390	0	0'0390
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	q	8∞	810	85 48'	"	"	90 00	85 48'	4 11'	11'6370	∞	"
5	e	5∞	510	83 18'	"	"	"	83 18'	6 41'	8'5230	"	"
6	t	3∞	310	78 56	"	"	"	78 56	11 04	5'1137	"	"
7	β	2∞	210	73 39	"	"	"	73 39	16 21	3'4092	"	"
8	s	$\frac{4}{3}\infty$	430	66 15	"	"	"	66 15	23 45	2'2727	"	"
9	m	∞	110	59 36	"	"	"	59 36	30 24	1'7046	"	"
10	l	$\frac{5}{6}\infty$	560	54 51'	"	"	"	54 51'	35 08'	1'4205	"	"
11	σ	$\frac{4}{3}\infty$	450	53 45	"	"	"	53 45	36 15	1'3637	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
12	n	$\infty \frac{5}{3}$	350	45° 39'	90° 00'	90° 00'	90° 00'	45° 39'	44° 21'	1'0225	∞	∞
13	k	$\infty 2$	120	40 26'	" "	" "	" "	40 26'	49 33'	0'8523	"	"
14	π	$\infty \frac{5}{2}$	250	34 17'	" "	" "	" "	34 17'	55 43'	0'6818	"	"
15	p	$\infty 3$	130	29 36'	" "	" "	" "	29 36'	60 23'	0'5682	"	"
16	i	$\infty 5$	150	18 49'	" "	" "	" "	18 49'	71 10'	0'3409	"	"
17	u	$0 \frac{1}{2}$	012	4 48'	24 58'	2 14'	24 53'	2 01'	24 52'	0'0390	0'4638	0'4655
18	E	$0 \frac{3}{4}$	034	3 12'	34 52'	" "	34 50'	1 50'	34 48'	"	0'6958	0'6969
19	r	01	011	2 24'	42 52'	" "	42 51'	1 38'	42 50'	"	0'9277	0'9285
20	d	$0 \frac{5}{4}$	054	1 55'	49 14'	" "	49 13'	1 27'	49 12'	"	1'1596	1'1603
21	v	$0 \frac{3}{2}$	032	1 36'	54 18'	" "	54 18'	1 18'	54 17'	"	1'3915	1'3921
22	w	02	021	1 12'	61 41'	" "	61 40'	1 03'	61 39'	"	1'8554	1'8558
23	x	+10	101	90 00'	58 19'	58 19'	0 00'	58 19'	0 00'	1'6204	0	1'6204
24	ξ	-10	101	90 00'	57 02'	57 02'	" "	57 02'	" "	1'5423	"	1'5423
25	f	+1	111	60 12'	61 50'	58 19'	42 51'	49 54'	25 58'	1'6204	0'9277	1'8672
26	G	-21	211	73 27'	72 56'	72 15'	" "	66 24'	15 47'	3'1237	"	3'2585
27	y	$+ \frac{1}{2}$	112	60 47'	43 33'	39 41'	24 53'	36 58'	19 38'	0'8297	0'4638	0'9506
28	η	$- \frac{1}{2}$	112	58 19'	41 27'	36 56'	" "	34 17'	20 21'	0'7517	"	0'8833
29	h	$+1 \frac{1}{4}$	414	81 51'	58 35'	58 19'	13 03'	57 39'	6 56'	1'6204	0'2319	1'6369
30	z	$+1 \frac{1}{2}$	212	74 01'	59 19'	" "	24 53'	55 46'	13 41'	"	0'4638	1'6855
31	g	$+ \frac{3}{2} \frac{1}{2}$	312	79 06'	67 50'	67 28'	" "	65 26'	10 04'	2'4111	"	2'4553

Friedelit.

Hexagonal. Rhomboedrisch-hemiedrisch.

c = 0'5470	lg c = 973799	lg a ₀ = 050057	lg p ₀ = 956190	a ₀ = 3'1664	p ₀ = 0'3647	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	o	0	0001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	∞	1120	30° 00'	90 00'	" "	90 00'	30 00'	60 00'	"	∞	∞
3	p	1	1121	" "	32 16'	17 31'	28 40'	15 29'	27 33'	0'3158	0'5470	0'6316
4	s	15'15	15'15'30'1	" "	83 58'	78 05'	83 03'	29 49'	59 27'	4'7372	8'2050	0'9475

Frieseit.

Rhombisch.

$a = 0.5969$	$\lg a = 977590$	$\lg a_0 = 990949$	$\lg p_0 = 009051$	$a_0 = 0.8119$	$p_0 = 1.2317$
$c = 0.7352$	$\lg c = 986641$	$\lg b_0 = 013359$	$\lg q_0 = 986641$	$b_0 = 1.3601$	$q_0 = 0.7352$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y	d = tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	0∞	010	0° 00	90 00	”	90 00	”	90 00	”	∞	∞
3	?q	0 $\frac{4}{3}$	043	”	44 25'	”	44 25'	”	44 25'	”	0.9803	0.9803
4	r	$\frac{1}{2}$ 0	102	90 00	31 37'	31 37'	0 00	31 37'	0 00	0.6158	0	0.6158
5	y	10	101	”	50 55'	50 55'	”	50 55'	”	1.2317	”	1.2317
6	w	30	301	”	74 51'	74 51'	”	74 51'	”	3.6951	”	3.6951
7	t	13	131	29 11	68 24	50 55'	65 36'	26 57'	54 16'	1.2317	2.2056	2.5262

Gadolinit.

Monoklin.

$a = 0.6261$	$\lg a = 979664$	$\lg a_0 = 967607$	$\lg p_0 = 032393$	$a_0 = 0.4743$	$p_0 = 2.1082$
$c = 1.3200$	$\lg c = 012057$	$\lg b_0 = 987943$	$\lg q_0 = 012055$	$b_0 = 0.7576$	$q_0 = 1.3199$
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 89^\circ 27'$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 999998$	$\lg e = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 798223$	$\lg \frac{p_0}{q_0} = 020338$	$h = 0.9999$	$e = 0.0096$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	0	001	90° 00	0° 33	0° 33	0° 00	0° 33	0° 00	0.0096	0	0.0096
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	”	90 00	0 00	90 00	0 00	∞	0	”
4	n	∞	110	57 57	”	”	90 00	57 57	32 03	1.5973	∞	”
5	l	∞2	120	38 37	”	”	”	38 37	51 23	0.7986	”	”
6	e	0 $\frac{1}{4}$	014	1 40	18 16	0 33	18 16	0 31	18 16	0.0096	0.3300	0.3301
7	i	0 $\frac{1}{3}$	013	1 15	23 45'	”	23 45	0 30	23 45	”	0.4400	0.4401
8	w	0 $\frac{1}{2}$	012	0 50	33 25'	”	33 25'	0 27'	33 25'	”	0.6600	0.6601
9	x	0 $\frac{2}{3}$	023	0 37'	41 21	”	41 21	0 25	41 21	”	0.8800	0.8801
10	q	01	011	0 25	52 51	”	52 51	0 20	52 51	”	1.3200	1.3200
11	y	02	021	0 12'	69 15	”	69 15'	0 12	69 15	”	2.6400	2.6400
12	t	+ $\frac{1}{2}$ 0	102	90 00	46 46	46 46	0 00	46 46	0 00	1.0637	0	1.0637

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
13	u	$-\frac{1}{4}0$	104	90° 00	27° 21'	27° 21'	0° 00	27° 21'	0° 00	0'5174	0	0'5174
14	v	$-\frac{5}{12}0$	5'0'12	"	40 59	40 59	"	40 59	"	0'8688	"	0'8688
15	s	$-\frac{1}{2}0$	102	"	46 15	46 15	"	46 15	"	1'0445	"	1'0445
16	r	-10	101	"	64 31'	64 31'	"	64 31'	"	2'0987	"	2'0987
17	a	+2	221	58 01	28 39	76 41	69 15	56 15	31 17'	4'2262	2'6400	4'9828
18	p	+1	111	58 04	68 10	64 43'	52 51	51 59	29 24	2'1179	1'3200	2'4955
19	? β	$+\frac{1}{2}$	112	58 11	51 23	46 46	33 25'	41 36	24 19'	1'0637	0'6600	1'2518
20	λ	$+\frac{2}{3}$	225	58 14'	45 05	40 27'	27 50	37 01'	53 21	0'8528	0'5280	1'0030
21	κ	$+\frac{1}{3}$	113	58 18	39 56	35 28	23 45	33 06	19 43	0'7123	0'4400	0'8372
22	θ	$+\frac{1}{10}$	1'1'10	59 05	14 24'	12 26	7 31	12 19'	7 20'	0'2204	0'1320	0'2569
23	γ	$-\frac{1}{2}$	112	57 43	51 01	46 15	33 25	41 05	24 32	1'0445	0'6600	1'2355
24	o	-1	111	57 50	68 02	64 31'	52 51	51 43'	29 35	2'0987	1'3200	2'4792
25	δ	-2	221	57 53'	78 37	76 38	69 15	56 08'	31 24	4'2070	2'6400	4'9665
26	ε	$+\frac{1}{2}$	212	72 41'	65 44	64 43'	33 25	60 30	15 44'	2'1179	0'6600	2'2183
27	ζ	$+\frac{2}{3}$	232	46 56	70 58	"	63 12	43 41	40 12'	"	1'9800	2'8991
28	?d	+12	121	38 44'	73 32'	"	69 15	36 53	48 25	"	2'6400	3'3842
29	η	$-\frac{1}{2}$	212	72 33	65 33'	64 31'	33 25	60 17	15 51	2'0987	0'6600	2'2000
30	f	-12	121	38 29	73 29	"	69 15	36 38	48 38	"	2'6400	3'3722
31	μ	$-\frac{1}{2}$	122	38 21'	59 17	46 15	52 51	32 15	42 23	1'0445	1'3200	1'6831
32	g	$+\frac{2}{3}$	231	46 52	80 12	76 41	75 49'	45 59	42 21'	4'2262	3'9600	5'7912
33	h	+32	321	67 23	81 42'	81 02	69 15	65 59	22 22'	6'3345	2'6400	6'8625
34	k	$-\frac{1}{2}$	123	38 14	48 14'	34 43'	41 20'	27 29'	35 52'	0'6931	0'8800	1'1201
35	z	$+\frac{1}{2}$	243	38 48	66 07	54 45	60 23'	34 57'	45 26'	1'4150	1'7600	2'2581

Ganomalith.

Tetragonal.

$$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 0.707 \quad \lg c = 984942 \quad \lg a_o = 015058 \quad a_o = 1.414$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	m	∞	110	45° 00	90 00	90 00	90 00	45 00	45 00	1'0000	∞	∞
3	?n	$\infty 4$	140	14 02	"	"	"	14 02	75 58	0'2500	"	"
4	p	1	111	45 00	44 59'	35 15'	35 15'	30 00	30 00	0'7070	0'7070	1'0000

Ganophyllit.

Monoklin.

a = 0.413	lga = 961595	lga _o = 935328	lg p _o = 064672	a _o = 0.2256	p _o = 4.4332
c = 1.8309	lg c = 026267	lg b _o = 973733	lg q _o = 026193	b _o = 0.5462	q _o = 1.8278
$\mu = \left. \begin{matrix} 86^\circ 39' \\ 180 - \beta \end{matrix} \right\}$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 999926$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 876667$	$\lg \frac{p_o}{q_o} = 038479$	h = 0.9983	e = 0.0584

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	o	001	90° 00	3° 21	3° 21	0° 00	3° 21	0° 00	0.0585	o	0.0585
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	m	∞	110	67 35	"	90 00	"	67 35	22 24	2.4254	"	"
4	e	01	011	1 50	61 22	3 21	61 21	1 36	61 19	0.0585	1.8309	1.8319

Gaylussit.

Monoklin.

a = 1.4896	lga = 017307	lga _o = 001347	lg p _o = 998653	a _o = 1.0315	p _o = 0.9695
c = 1.4441	lg c = 015960	lg b _o = 984040	lg q _o = 015072	b _o = 0.6925	q _o = 1.4149
$\mu = \left. \begin{matrix} 78^\circ 27' \\ 180 - \beta \end{matrix} \right\}$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 999112$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 930151$	$\lg \frac{p_o}{q_o} = 983581$	h = 0.9798	e = 0.2002

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	o	001	90° 00	11° 33	11° 33	0° 00	11° 33	0° 00	0.2043	o	0.2043
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞ 0	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"
4	m	∞	110	34 25	"	90 00	90 00	34 25	55 35	0.6852	∞	"
5	e	01	011	8 03	55 34	11 33	55 18	6 38	54 45	0.2043	1.4441	1.4585
6	s	-10	101	90 00	38 08	38 08	o 00	38 08	o 00	0.7852	o	0.7852
7	r	- $\frac{1}{2}$	112	21 55	37 53	16 12	35 50	13 15	34 44	0.2904	0.7220	0.7783

Gehlenit.

Tetragonal.

$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 0.5658$	lg c = 975266	lg a _o = 024734	a _o = 1.7674
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N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	a	∞	110	45° 00	90 00	90 00	90 00	45 00	45 00	1.0000	∞	∞
3	n	∞ 2	120	26 34	"	"	"	26 34	63 26	0.5000	"	"
4	e	01	011	o 00	29 30	o 00	29 30	o 00	29 30	o	0.5658	0.5658
5	f	0 $\frac{8}{7}$	087	o 00	32 53	"	32 53	"	32 53	"	0.6466	0.6466
6	g	02	021	"	48 32	"	48 32	"	48 32	"	1.1316	1.1316

Geokronit.

Rhombisch.

a = 1'006	lga = 000260	lga ₀ = 023917	lgp ₀ = 976083	a ₀ = 1'734	p ₀ = 0'577
c = 0'58	lgc = 976343	lgb ₀ = 023657	lq ₀ = 976343	b ₀ = 1'724	q ₀ = 0'58

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	b	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	n	01	011	0° 00	30 07	"	30 07	"	30 07	"	0'5800	0'5800
3	r	1½	212	63 18	32 50	29 58	16 10	28 58	14 06	0'5765	0'2900	0'6454

Gerhardtit.

Rhombisch.

a = 0'9217	lga = 996459	lga ₀ = 990156	lgp ₀ = 009844	a ₀ = 0'7972	p ₀ = 1'2544
c = 1'1562	lgc = 006303	lgb ₀ = 993697	lq ₀ = 006303	b ₀ = 0'8649	q ₀ = 1'1562

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	m	∞	110	47° 20	90 00	90 00	90 00	47 20	42 40	1'0849	∞	1'0849
3	z	20	201	90 00	68 16	68 16	0 00	68 16	0 00	2'5088	0	2'5088
4	y	½	112	47 20	40 28	32 06	30 02	28 30	26 05	0'6272	0'5781	0'8530
5	w	⅔	223	"	48 40	39 54	37 37	33 31	30 35	0'83628	0'7708	1'1373
6	u	¾	334	"	51 59	43 15	40 56	35 24	32 16	0'9408	0'8671	1'2794
7	t	⅞	778	"	56 11	47 40	45 21	37 39	34 16	1'0976	1'0116	1'4927
8	p	1	111	"	59 37	51 26	49 08	39 22	35 47	1'2544	1'1562	1'7060
9	s	2	221	"	73 40	68 16	66 37	44 53	40 34	2'5088	2'3124	0'4119
10	r	5	551	"	83 19	80 56	80 11	46 54	42 18	6'2720	5'7810	8'5298

Gersdorffit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
			010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	012	"	26 34	"	26 34	"	26 34	"	0'5000	0'5000
			021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
			120	26 34	90 00	90 00	26 34	"	0'5000	∞	∞	
3	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1'0000	1'0000	1'4142

Gismondin.

Rhombisch.

a = 0'9856	lg a = 999370	lg a ₀ = 002164	lg p ₀ = 997836	a ₀ = 1'0511	p ₀ = 0'9514
c = 0'9377	lg c = 997206	lg b ₀ = 002794	lg q ₀ = 997206	b ₀ = 1'0664	q ₀ = 0'9377

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0 ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	n	∞	110	45 25	"	"	90 00	45 25	44 35	1'0147'	∞	"
5	s	01	011	0 00	43 09'	0 00	43 09'	0 00	43 09'	0	0'9377	0'9377
6	o	10	101	90 00	43 34'	43 34'	0 00	43 34'	0 00	0'9514	0	0'9514

Glanzkobalt.

Regulär. Pentagonal-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
			010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	f	$\left\{ \begin{array}{l} 0\frac{1}{4} \\ 04 \\ \infty 4 \end{array} \right.$	014	"	14 02	"	14 02	"	14 02	"	0'2500	0'2500
			041	"	75 58	"	75 58	"	75 58	"	4'0000	4'0000
			140	14 02	90 00	90 00	14 02	"	0'2500	∞	∞	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ		
3	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	012 021 120	0° 00 " " 26 34	26° 34 63 26 90 00	0° 00 " " 90 00	26° 34 63 26 90 00	0° 00 " " 26 34	26° 34 63 26 " "	0 " 0'5000	0'5000 2'0000 ∞	0'5000 2'0000 ∞		
		4	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011 110	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	45 00 " "	0 1'0000	1'0000 ∞	1'0000 ∞
				5	o	$\left\{ \begin{array}{l} 2\frac{1}{2} \\ 1\frac{5}{2} \end{array} \right.$	225 252	" " 21 48	29 29' 69 37'	21 48 45 00	21 48 68 12	20 22 " "	20 22' 60 30	0'4000 1'0000
6	t	$\left\{ \begin{array}{l} 3\frac{3}{4} \\ 1\frac{4}{3} \end{array} \right.$	334 343			45 00 36 52	46 41 59 02	36 52 45 00	36 52 53 08	30 58 " "	30 58 43 19	0'7500 1'0000	0'7500 1'3333	1'0606 1'6667
		7	p	1	111	45 00	54 44	" "	45 00	35 16	35 16	" "	1'0000	1'4142
8	u	$\left\{ \begin{array}{l} \frac{1}{2} 1 \\ 2 \end{array} \right.$	122 221	26 34 45 00	48 11' 70 31'	26 34 63 26	" " 63 26	19 28 41 48'	41 48' " "	0'5000 2'0000	" " 2'0000	1'1180 2'8284		
		9	x	$\left\{ \begin{array}{l} 1\frac{2}{3} 2 \\ 2\frac{1}{2} 3 \\ 23 \end{array} \right.$	123 132 231	26 34 18 26 33 41'	36 42 57 41' 74 30	18 26 26 34 63 26	33 41' 56 18' 71 34	15 30 " " 32 18'	32 18' 53 18 " "	0'3333 0'5000 2'0000	0'6667 1'5000 3'0000	0'7453 1'5811 3'6055
10	y			$\left\{ \begin{array}{l} 1\frac{3}{4} 3 \\ 2\frac{1}{2} 4 \\ 3\frac{1}{2} 2 \end{array} \right.$	234 243 342	" " 26 34 36 52	42 02 56 08' 68 12	26 34 33 41' 56 18'	36 52 53 08 63 26	21 48 " " 33 51	33 51 47 58 " "	0'5000 0'6667 1'5000	0'7500 1'3333 2'0000	0'9014 1'4907 2'5000

Glaserit.

Hexagonal. Rhomboedrisch-hemiedrisch.

c = 1'2839	lgc = 010854	lga ₀ = 013002	lgp ₀ = 993245	a ₀ = 1'3490	p ₀ = 0'8560
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	$\infty 0$	1010	0° 00	90 00	" "	90 00	" "	90 00	" "	∞	∞
3	m	∞	1120	30 00	" "	90 00	" "	30 00	60 00	0'5773	" "	" "
4	δ	$+\frac{1}{4}$	1124	" "	20 20	10 30	17 48	10 00'	17 31	0'1853	0'3210	0'3706
5	e ϵ	$+\frac{1}{2}$	1122	" "	36 33	20 20	32 42	17 19'	31 03	0'3706	0'6420	0'7413
6	ry	± 1	1121	" "	56 00	36 33	52 05	24 29'	45 53	0'7413	1'2839	1'4826

Glauberit.

Monoklin.

$a = 1.2199$	$\lg a = 0.08632$	$\lg a_0 = 0.07454$	$\lg p_0 = 0.92546$	$a_0 = 1.1872$	$p_0 = 0.8423$
$c = 1.0275$	$\lg c = 0.01178$	$\lg b_0 = 0.98822$	$\lg q_0 = 0.97838$	$b_0 = 0.9732$	$q_0 = 0.9514$
$\mu = \begin{cases} 67^\circ 49' \\ 180 - \beta \end{cases}$	$\lg h = \begin{cases} 996660 \\ \lg \sin \mu \end{cases}$	$\lg e = \begin{cases} 957700 \\ \lg \cos \mu \end{cases}$	$\lg \frac{p_0}{q_0} = 0.94706$	$h = 0.9260$	$e = 0.3776$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	c	o	001	90° 00	22° 11	22° 11	0° 00	22° 11	0° 00	0.4077	0	0.4077
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	41 31	"	"	90 00	41 31	48 29	0.8852	∞	"
5	f	$o \frac{2}{3}$	023	30 46	38 34	22 11	34 25	18 35	32 23	0.4077	0.6850	0.7972
6	g	02	021	11 13	64 29	"	64 03	10 07	62 16	"	2.0550	2.0951
7	z	$-\frac{3}{2} 0$	302	90 00	43 44	43 44	0 00	43 44	0 00	0.9566	0	0.9566
8	t	-20	201	"	54 41	54 41	"	54 41	"	1.4115	"	1.4115
9	r	+6	661	43 34	83 18	80 19	80 47	43 12	46 01	5.8656	6.1650	8.5094
10	s	+1	111	52 03	59 06	52 48	45 46	42 35	31 51	1.3174	1.0275	1.6707
11	e	$+\frac{4}{3}$	445	54 06	54 30	48 38	39 25	41 15	28 31	1.1355	0.8220	1.4018
12	a	$+\frac{3}{4}$	334	54 44	53 09	47 30	37 37	40 48	27 31	1.0900	0.7706	1.3349
13	u	$+\frac{1}{2}$	112	59 13	45 07	40 47	27 11	37 30	21 15	0.8626	0.5137	1.0040
14	β	$+\frac{1}{3}$	113	64 17	38 17	35 25	18 54	33 55	15 36	0.7109	0.3425	0.7892
15	v	$-\frac{1}{3}$	113	16 59	19 42	5 58	"	5 39	18 48	0.1045	"	0.3581
16	w	$-\frac{1}{2}$	112	5 14	27 17	2 41	27 11	2 24	27 10	0.0470	0.5137	0.5159
17	n	-1	111	26 02	48 50	26 39	45 46	19 17	42 34	0.5018	1.0275	1.1435
18	x	-3	331	48 29	72 07	66 41	64 03	45 26	39 07	2.3211	2.0550	3.1001
19	e	-31	311	66 07	68 30	"	45 46	58 18	22 07	"	1.0275	2.5384

Glaubersalz.

Monoklin.

$a = 1.116$	$\lg a = 0.04766$	$\lg a_0 = 0.95494$	$\lg p_0 = 0.04506$	$a_0 = 0.9014$	$p_0 = 1.109$
$c = 1.238$	$\lg c = 0.09272$	$\lg b_0 = 0.99078$	$\lg q_0 = 0.07154$	$b_0 = 0.8078$	$q_0 = 1.179$
$\mu = \begin{cases} 72^\circ 15' \\ 180 - \beta \end{cases}$	$\lg h = \begin{cases} 997882 \\ \lg \sin \mu \end{cases}$	$\lg e = \begin{cases} 948411 \\ \lg \cos \mu \end{cases}$	$\lg \frac{p_0}{q_0} = 0.97352$	$h = 0.9524$	$e = 0.3049$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	a	o	001	90° 00	17° 45	17° 45	0° 00	17° 45	0° 00	0.3201	0	0.3201
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	c	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
4	e	∞	110	43° 15'	90° 00'	90° 00'	90° 00'	43° 15'	46° 45'	0° 9408'	∞	∞
5	f	$\infty 2$	120	25 11'	"	"	"	25 11'	64 48'	0° 4704'	"	"
6	m	01	011	14 30	51 58'	17 45'	51 04'	11 22'	49 42'	0° 3201'	1° 2380'	1° 2787'
7	v	02	021	7 22	68 10'	"	68 00'	6 50	67 01'	"	2° 4760'	2° 4966'
8	w	$+\frac{1}{2}0$	102	90 00	42 04	42 04	0 00	42 04	0 00	0° 9023'	0	0° 9023'
9	l	$-\frac{1}{2}0$	102	90 00	14 41	14 41	"	14 41	"	0° 2620'	"	0° 2620'
10	r	-10	101	"	40 10'	40 10'	"	40 10'	"	0° 8443'	"	0° 8443'
11	u	$+\frac{1}{2}$	221	46 56	74 35	69 19	68 00'	44 46	41 10	2° 6490'	2° 4760'	3° 6259'
12	d	$+\frac{1}{2}$	111	50 10'	62 39	56 02	51 04'	43 00'	34 40'	1° 4846'	1° 2380'	1° 9334'
13	x	$+\frac{1}{2}$	112	55 33	47 34'	42 04	31 45'	37 30	24 41	0° 6845'	0° 6190'	1° 0942'
14	y	$-\frac{1}{2}$	112	32 56	33 54'	14 41	"	12 34	30 55	0° 6207'	"	0° 6722'
15	n	-1	111	34 17'	56 17	46 10'	51 04'	27 57	43 24'	0° 8443'	1° 2380'	1° 4985'

Glaukodot.

Rhombisch.

a = 0°6855	lg a = 983601	lg a ₀ = 976017	lg p ₀ = 023983	a ₀ = 0°5757	p ₀ = 1°7371
c = 1°1908	lg c = 007584	lg b ₀ = 992416	lg q ₀ = 007584	b ₀ = 0°8398	q ₀ = 1°1908

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	a	∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	b	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	p	6∞	610	83 29	"	"	90 00	83 29	6 31	8° 7526'	∞	"
5	m	∞	110	55 34	"	"	"	55 34	34 26	1° 4588'	"	"
6	r	$0\frac{1}{2}$	014	0 00	16 34'	0 00	16 34'	0 00	16 34'	0	0° 2977'	0° 2977'
7	q	$0\frac{1}{3}$	013	"	21 39	"	21 39	"	21 39	"	0° 3969'	0° 3969'
8	s	$0\frac{1}{2}$	012	"	30 46	"	30 46	"	30 46	"	0° 5954'	0° 5954'
9	l	01	011	"	49 58'	"	49 58'	"	49 58'	"	1° 1908'	1° 1908'
10	k	02	021	"	67 13'	"	67 13'	"	67 13'	"	2° 3816'	2° 3816'
11	t	03	031	"	74 21'	"	74 21'	"	74 21'	"	3° 5724'	3° 5724'
12	e	10	101	90 00	60 04'	60 04'	0 00	60 04'	0 00	1° 7371	0	1° 7371
13	α	$\frac{1}{2}$	112	55 34	46 29	40 58'	30 46	36 44	24 12'	0° 8685'	0° 5954'	1° 0530'
14	g	$\frac{1}{2} 1$	111	"	64 36	60 04'	49 58'	48 10	30 43	1° 7371	1° 1908'	2° 1060'
15	v	$1\frac{1}{2}$	212	71 05	61 25'	"	30 46	56 10'	16 32'	"	0° 5954'	1° 8363'
16	β	21	211	"	74 46	73 56'	49 56'	65 53'	18 14	3° 4743	1° 1908'	3° 6727'

Glimmer.¹⁾

Rhombisch. (?)

$a = 0.5773$	$\lg a = 976140$	$\lg a_0 = 924381$	$\lg p_0 = 075619$	$a_0 = 0.1753$	$p_0 = 5.704$
$c = 3.293$	$\lg c = 051759$	$\lg b_0 = 948241$	$\lg q_0 = 051759$	$b_0 = 0.3037$	$q_0 = 3.293$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	P	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	h	0 ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	T	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	G	∞	110	60 00	"	"	90 00	60 00	30 00	1.7322	∞	"
5	L	$\infty 3$	130	30 00	"	"	"	30 00	60 00	0.5774	"	"
6	J	0 $\frac{1}{3}$	013	0 00	47 40	0 00	47 40	0 00	47 40	0	1.0976	1.0976
7	t	0 $\frac{2}{3}$	023	"	65 30	"	65 30	"	63 30	"	2.1953	2.1953
8	r	01	011	"	73 06	"	73 06	"	73 06	"	3.2930	3.2930
9	Y	0 $\frac{1}{3}$	043	"	77 10	"	77 10	"	77 10	"	4.3907	4.3907
10	s	0 $\frac{3}{2}$	032	"	78 33	"	78 33	"	78 33	"	4.9394	4.9394
11	ξ	0 $\frac{1}{2}$	0.12.7	"	79 57	"	79 57	"	79 57	"	5.6451	5.6451
12	a	02	021	"	81 22	"	81 22	"	81 22	"	6.5860	6.5860
13	β	0 $\frac{5}{2}$	052	"	83 04	"	83 04	"	83 04	"	8.2324	8.2324
14	y	04	041	"	85 39	"	85 39	"	85 39	"	13.172	13.172
15	q	06	061	"	87 10	"	87 10	"	87 10	"	19.758	19.758
16	x	$\frac{1}{2} 0$	102	90 00	70 40	70 40	0 00	70 40	0 00	2.8521	0	2.8521
17	g	10	101	"	80 03	80 03	"	80 03	"	5.7041	"	5.7041
18	a	$-\frac{1}{12}$	1.1.12	60 00	28 45	25 25	15 20	24 37	13 55	0.4753	0.2744	0.5489
19	W	$+\frac{1}{9}$	119	"	36 12	32 22	20 06	30 45	17 10	0.6338	0.3660	0.7318
20	k	$-\frac{1}{3}$	118	"	39 38	35 29	22 22	33 24	18 31	0.7130	0.4116	0.8233
21	γ	$+\frac{1}{7}$	117	"	43 15	39 10	25 11	36 24	20 02	0.8149	0.4704	0.9409
22	z	$+\frac{1}{6}$	116	"	47 40	43 33	28 45	39 48	21 41	0.9507	0.5488	1.0977
23	S	$+\frac{1}{10}$	115	"	52 48	48 46	33 22	43 37	23 28	1.1408	0.6586	1.3173
24	p	$+\frac{1}{4}$	114	"	58 43	54 57	39 27	47 45	25 18	1.426	0.8232	1.6466
25	ζ	$-\frac{1}{3}$	113	"	65 30	62 15	47 40	52 00	27 04	1.9014	1.0976	2.1955
26	H	$-\frac{1}{10}$	225	"	69 13	66 20	52 47	54 04	27 52	2.2816	1.3172	2.6346
27	o	$-\frac{1}{2}$	112	"	73 06	70 40	58 43	55 58	28 35	2.8520	1.6465	3.2933
28	l	$+\frac{5}{9}$	558	"	76 20	74 20	64 05	57 18	29 04	3.5651	2.0581	4.1165
29	N	$+\frac{1}{10}$	223	"	77 10	75 16	65 30	57 36	29 10	3.8027	2.1953	4.3910
30	u	$-\frac{1}{7}$	7.7.10	"	77 45	75 56	66 33	57 49	29 15	3.9929	2.3051	4.6105
31	n	$-\frac{3}{10}$	334	"	78 33	76 50	67 57	58 05	29 20	4.2781	2.4697	4.9398
32	w	$-\frac{1}{10}$	9.9.10	"	80 25	78 58	71 21	58 39	29 32	5.1336	2.9636	5.9277
33	M	$+\frac{1}{1}$	111	"	81 22	80 03	73 06	58 53	29 37	5.7041	3.2930	6.5864

1) \pm Im Sinn der monoklinen Symbole.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
34	i	$+\frac{0}{8}$	998	60°00	82°19	81°08'	74°53'	59°07'	29°42'	6'4171	3'7047	7'4097
35	c	$+\frac{5}{4}$	554	"	83 04'	82 01'	76 20'	59 17'	29 45'	7'1301	4'1162	8'2330
36	e	$-\frac{3}{2}$	332	"	84 13	83 20	78 33'	59 30'	29 49'	8'5562	4'9394	9'8796
37	m	-2	221	"	85 39'	84 59'	81 22'	59 43'	29 54'	11'408	6'586	13'173
38	f	-3	331	"	87 06'	86 39'	84 13'	59 52'	29 57'	17'1124	9'879	19'759
39	σ	$+\frac{5}{2}$	551	"	88 15'	87 59'	86 31'	59 57'	29 59'	28'5206	16'465	32'932
40	d	$-\frac{1}{2}$ $\frac{3}{2}$	132	30 00	80 03'	70 40'	78 33'	29 30'	58 32'	2'8520'	4'9394	5'7037
41	v	$-\frac{1}{4}$ $\frac{3}{4}$	134	"	70 40'	54 57'	67 57'	28 09'	54 48'	1'4260	2'4697	2'8519
42	b	$-\frac{5}{2}$ $\frac{1}{2}$	5'15'2	"	87 59'	85 59'	87 41'	29 59'	59 56'	14'2600	24'6970	28'519

Göthit.

Rhombisch.

a=0'9185	lga=996308	lga ₀ =018003	lgp ₀ =981997	a ₀ =1'5136	p ₀ =0'6606
c=0'6068	lgc=978305	lgb ₀ =021695	lq ₀ =978305	b ₀ =1'6480	q ₀ =0'6068

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	b	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	M	2 ∞	210	65 20	"	"	90 00	65 20	24 40	2'1777'	∞	"
4	y	∞	110	47 26	"	"	"	47 26	42 34	1'0887'	"	"
5	l	$\infty 2$	120	28 33'	"	"	"	28 33'	61 26'	0'5443'	"	"
6	e	01	011	0 00	31 15	0 00	31 15	0 00	31 15	0	0'6068	0'6068
7	d	02	021	"	50 31	"	50 31	"	50 31	"	1'2136	1'2136
8	i	0 $\frac{5}{2}$	052	"	56 36'	"	56 36'	"	56 36'	"	1'5170	1'5170
9	u	10	101	90 00	33 27	33 27	0 00	33 27	0 00	0'6606'	0	0'6606'
10	N	40	401	"	69 16'	69 16'	"	69 16'	"	2'6426	"	2'6426
11	Λ	1 $\frac{5}{2}$	252	23 32	58 51	33 27	56 36'	19 59	51 41'	0'6606'	1'5170	1'6546
12	p	1	111	47 26	41 53'	"	31 15	29 27'	26 51	"	0'6068	0'8970
13	s	1 $\frac{1}{2}$	212	65 20	36 01	"	16 52'	32 18	14 12'	"	0'3034	0'7270
14	ϱ	31	311	72 58'	64 14'	63 13'	31 15	59 27'	15 17'	1'9829	0'6068	2'0727

Gold.

Regulär.

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d = tg ϱ
1	c	0 ∞	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
			010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	f	0 $\frac{1}{4}$ 04 ∞4	014	"	14 02	"	14 02	"	14 02	"	0'2500	0'2500
			041	"	75 58	"	75 58	"	75 58	"	4'0000	4'0000
			140	14 02	90 00	90 00	90 00	14 02	"	0'2500	∞	∞
3	a	0 $\frac{1}{3}$ 03 ∞3	013	0 00	18 26	0 00	18 26	"	18 26	"	0'3333	0'3333
			031	"	71 34	"	71 34	"	71 34	"	3'0000	3'0000
			130	18 26	90 00	90 00	90 00	18 26	"	0'3333	∞	∞
4	g	0 $\frac{2}{5}$ 05 ∞5	025	0 00	21 48	0 00	21 48	0 00	21 48	0	0'4000	0'4000
			052	"	68 12	"	68 12	"	68 12	"	2'5000	2'5000
			250	21 48	90 00	90 00	90 00	21 48	"	0'4000	∞	∞
5	e	0 $\frac{1}{2}$ 02 ∞2	012	0 00	26 34	0 00	26 34	0 00	26 34	0	0'5000	0'5000
			021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
			120	26 34	90 00	90 00	90 00	26 34	"	0'5000	∞	∞
6	d	01 ∞	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
7	A	1 $\frac{1}{8}$ 18	118	"	10 01'	7 07'	7 07'	7 04'	7 04'	0'1250	0'1250	0'1768
			181	7 07'	82 56'	45 00	82 52'	"	79 59'	1'0000	8'0000	8'0622
8	k	1 $\frac{1}{4}$ 14	114	45 00	19 28	14 02	14 02	13 38	13 38	0'2500	0'2500	0'3535
			141	14 02	76 22	45 00	75 58	"	70 32	1'0000	4'0000	4'1231
9	m	1 $\frac{1}{3}$ 13	113	45 00	25 14'	18 26	18 26	17 33	17 33	0'3333	0'3333	0'4714
			131	18 26	72 27	45 00	71 34	"	64 45'	1'0000	3'0000	3'1623
10	q	1 $\frac{1}{2}$ 12	112	45 00	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44'	1'0000	2'0000	2'2360
11	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
12	ψ	1 $\frac{1}{2}$ 2 24	124	26 34	29 12'	14 02	26 34	12 36'	25 52'	0'2500	0'5000	0'5590
			142	14 02	64 07'	26 34	63 26	"	60 47'	0'5000	2'0000	2'0615
			241	26 34	77 23'	63 26	75 58	25 52'	"	2'0000	4'0000	4'4721
13	x	1 $\frac{2}{3}$ 23 23	123	"	36 42	18 26	33 41'	15 30	32 18'	0'3333	0'6667	0'7453
			132	18 26	57 41'	26 34	56 18'	"	53 18'	0'5000	1'5000	1'5811
			231	33 41'	74 30	63 26	71 34	32 18'	"	2'0000	3'0000	3'6055
14	S	3 $\frac{1}{3}$ 34 43	345	36 52	45 00	30 58	38 39'	25 06	34 27	0'6000	0'8000	1'0000
			354	30 58	55 33	36 52	51 20'	"	45 00	0'7500	1'2500	1'4577
			453	38 39'	64 54	53 08	59 02	34 27	"	1'3333	1'6667	2'1344
15	Ω	1 $\frac{5}{8}$ 10 10	1'10'18	5 42'	29 10'	3 11	29 03'	2 47	29 01	0'0556	0'5556	0'5583
			1'18'10	3 11	60 59	5 42'	60 56'	"	60 49'	0'1000	1'8000	1'8028
			10'18	29 03'	87 13	84 17'	86 49	29 01	"	10.000	18'000	20'591

Granat.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	{ 0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
		{ 0 ∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
2	C	{ 0 $\frac{1}{6}$	016	"	9 27'	"	9 27'	"	9 27'	"	0'1667	0'1667
		{ 06	061	"	80 32'	"	80 32'	"	80 32'	"	6'0000	6'0000
		{ $\infty 6$	160	9 27'	90 00	90 00	90 00	9 27'	"	0'1667	∞	∞
3	a	{ 0 $\frac{1}{3}$	013	0 00	18 26	0 00	18 26	0 00	18 26	0	0'3333	0'3333
		{ 03	031	"	71 34	"	71 34	"	71 34	"	3'0000	3'0000
		{ $\infty 3$	130	18 26	90 00	90 00	90 00	18 26	"	0'3333	∞	∞
4	g	{ 0 $\frac{1}{2}$	025	0 00	21 48	0 00	21 48	0 00	21 48	0	0'4000	0'4000
		{ 0 $\frac{2}{3}$	052	"	68 12	"	68 12	"	68 12	"	2'5000	2'5000
		{ $\infty \frac{2}{3}$	250	21 48	90 00	90 00	90 00	21 48	"	0'4000	∞	∞
5	e	{ 0 $\frac{1}{2}$	012	0 00	26 34	0 00	26 34	0 00	26 34	0	0'5000	0'5000
		{ 02	021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
		{ $\infty 2$	120	26 34	90 00	90 00	90 00	26 34	"	0'5000	∞	∞
6	h	{ 0 $\frac{1}{3}$	035	0 00	30 58	0 00	30 58	0 00	30 58	0	0'6000	0'6000
		{ 0 $\frac{2}{3}$	053	"	59 02	"	59 02	"	59 02	"	1'6667	1'6667
		{ $\infty \frac{2}{3}$	350	30 58	90 00	90 00	90 00	30 58	"	0'6000	∞	∞
7	b	{ 0 $\frac{1}{2}$	023	0 00	33 41'	0 00	33 41'	0 00	33 41'	0	0'6667	0'6667
		{ 0 $\frac{2}{3}$	032	"	56 18'	"	56 18'	"	56 18'	"	1'5000	1'5000
		{ $\infty \frac{2}{3}$	230	33 41'	90 00	90 00	90 00	33 41'	"	0'6667	∞	∞
8	δ	{ 0 $\frac{1}{4}$	045	0 00	38 39'	0 00	38 39'	0 00	38 39'	0	0'8000	0'8000
		{ 0 $\frac{2}{4}$	054	"	51 20'	"	51 20'	"	51 20'	"	1'2500	1'2500
		{ $\infty \frac{2}{4}$	450	38 39'	90 00	90 00	90 00	38 39'	"	0'8000	∞	∞
9	d	{ 01	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
		{ ∞	110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
10	l	{ $\frac{1}{5}$	115	"	15 47'	11 18'	11 18'	11 06	11 06	0'2000	0'2000	0'2828
		{ 15	151	11 18'	78 54	45 00	78 41'	"	74 12'	1'0000	5'0000	5'0989
11	λ	{ $\frac{2}{7}$	227	45 00	22 00	15 57	15 57	15 21'	15 21'	0'2857	0'2857	0'4041
		{ $1 \frac{2}{7}$	272	15 56'	74 38'	45 00	74 03'	"	68 00	1'0000	3'5000	3'6401
12	m	{ $\frac{1}{3}$	113	45 00	25 14'	18 26	18 26	17 33	17 33	0'3333	0'3333	0'4714
		{ 13	131	18 26	72 27'	45 00	71 34	"	64 45'	1'0000	3'0000	3'1623
13	q	{ $\frac{1}{2}$	112	45 00	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
		{ 12	121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
14	A	{ $\frac{4}{7}$	447	45 00	38 56'	29 44'	29 44'	26 23	26 23	0'5714	0'5714	0'8081
		{ $1 \frac{4}{7}$	474	29 44'	63 36'	45 00	60 15'	"	51 03'	1'0000	1'7500	2'0155
15	B	{ $\frac{3}{5}$	335	45 00	40 19	30 58	30 58	27 13'	27 14	0'6000	0'6000	0'8485
		{ $1 \frac{3}{5}$	353	30 58	62 46'	45 00	59 02	"	49 41	1'0000	1'6667	1'9437

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
16	t	$\left\{ \begin{array}{l} \frac{3}{4} \\ 1\frac{1}{3} \end{array} \right.$	334	45°00	46°41	36°52	36°52	30°58	30°58	0'7500	0'7500	1'0606
			343	36 52	59 02	45 00	53 08	"	43 19'	1'0000	1'3333	1'6667
17	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
18	v	$\left\{ \begin{array}{l} \frac{1}{3}1 \\ 3 \end{array} \right.$	133	18 26	46 30'	18 26	"	13 16	43 29'	0'3333	"	1'0541
			331	45 00	76 44	71 34	71 34	43 29'	"	3'0000	3'0000	4'2426
19	u	$\left\{ \begin{array}{l} \frac{1}{2}1 \\ 2 \end{array} \right.$	122	26 34	48 11'	26 34	45 00	19 28	41 48'	0'5000	1'0000	1'1180
			221	45 00	70 31'	63 26	63 26	41 48'	"	2'0000	2'0000	2'8284
20	w	$\left\{ \begin{array}{l} \frac{2}{3}1 \\ \frac{3}{2} \end{array} \right.$	233	33 41'	50 14'	33 41'	45 00	25 14'	39 45'	0'6667	1'0000	1'2019
			332	45 00	64 45'	56 18'	56 18'	39 45'	"	1'5000	1'5000	2'1213
21	y	$\left\{ \begin{array}{l} \frac{1}{3}\frac{3}{4} \\ \frac{2}{3}\frac{4}{3} \\ \frac{3}{2}\frac{2}{3} \end{array} \right.$	234	33 41'	42 02	26 34	36 52	21 48	33 51	0'5000	0'7500	0'9014
			243	26 34	56 08'	33 41'	53 08	"	47 58	0'6667	1'3333	1'4907
			342	36 52	68 12	56 18'	63 26	33 51	"	1'5000	2'0000	2'5000
22	x	$\left\{ \begin{array}{l} \frac{1}{3}\frac{2}{3} \\ \frac{1}{2}\frac{3}{2} \\ 23 \end{array} \right.$	123	26 34	36 42	18 26	33 41'	15 30	32 18'	0'3333	0'6667	0'7453
			132	18 26	57 41'	26 34	56 18'	"	53 18	0'5000	1'5000	1'5811
			231	33 41'	74 30	63 26	71 34	32 18'	"	2'0000	3'0000	3'6055
23	ω	$\left\{ \begin{array}{l} \frac{1}{4}\frac{3}{4} \\ \frac{1}{3}\frac{4}{3} \\ 34 \end{array} \right.$	134	18 26	38 19'	14 02	36 52	11 18'	36 02'	0'2500	0'7500	0'7906
			143	14 02	53 57'	18 26	53 08	"	51 40	0'3333	1'3333	1'3743
			341	36 52	78 41'	71 34	75 58	36 02'	"	3'0000	4'0000	5'0000
24	Σ	$\left\{ \begin{array}{l} \frac{1}{4}\frac{4}{4} \\ \frac{1}{3}\frac{5}{3} \\ 45 \end{array} \right.$	145	14 02	39 30'	11 18'	38 39'	8 52'	38 06'	0'2000	0'8000	0'8246
			154	11 18'	51 53	14 02	51 20'	"	50 29'	0'2500	1'2500	1'2747
			451	38 39'	81 07'	75 58	78 41'	38 07	"	4'0000	5'0000	6'4031
25	E	$\left\{ \begin{array}{l} \frac{3}{4}\frac{5}{4} \\ \frac{3}{5}\frac{4}{5} \\ \frac{5}{3}\frac{3}{5} \end{array} \right.$	358	30 58	36 05	20 33'	32 00'	17 38'	30 22'	0'3750	0'6250	0'7289
			385	20 33'	59 40	30 58	57 59'	"	53 55	0'6000	1'6000	1'7088
			583	32 00'	72 21'	59 02	69 26'	30 20	"	1'6667	2'6667	3'1446
26	D	$\left\{ \begin{array}{l} \frac{3}{10}\frac{7}{10} \\ \frac{3}{7}\frac{10}{7} \\ \frac{7}{3}\frac{10}{3} \end{array} \right.$	3'7'10	23 12	37 17'	16 42	34 59'	13 48'	33 50'	0'3000	0'7000	0'7616
			3'10'7	16 42	56 09'	23 12	55 00'	"	52 42'	0'4286	1'4286	1'4914
			7'10'3	34 59'	76 11'	66 48	73 18	33 50'	"	2'3333	3'3333	4'0688

Graphit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1'386 \quad \lg c = 014176 \quad \lg a_0 = 009680 \quad \lg p_0 = 996569 \quad a_0 = 1'250 \quad p_0 = 0'924 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	π	10	1011	"	42 44'	"	42 44'	"	42 44'	"	0'9240	0'9240
4	ρ	30	3031	"	70 10	"	70 10	"	70 10	"	2'7721	2'7721
5	p.	1	1121	30 00	58 00	38 40	54 11'	25 05'	47 15'	0'8002	1'3861	1'6005

Greenockit.

Hexagonal. Hemimorph.

$c = 1.4061$	$\lg c = 0.14802$	$\lg a_0 = 0.09054$	$\lg p_0 = 9.97193$	$a_0 = 1.2318$	$p_0 = 0.9374$	(G_1)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	n	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	d	2∞	2130	19 06'	"	"	"	19 06'	70 53'	0.3464	"	"
5	e	1/7 0	1017	0 00	7 37'	0 00	7 37'	0 00	7 37'	0	0.1339	0.1339
6	a	3/20 0	3.0.3.20	"	8 00	"	8 00	"	8 00	"	0.1406	0.1406
7	f	1/3 0	1015	"	10 37'	"	10 37'	"	10 37'	"	0.1875	0.1875
8	i	1/2 0	1012	"	25 07'	"	25 07'	"	25 07'	"	0.4687	0.4687
9	k	2/3 0	2023	"	32 00	"	32 00	"	32 00	"	0.6249	0.6249
10	l	3/4 0	3034	"	35 06'	"	35 06'	"	35 06'	"	0.7030	0.7030
11	r	10	1011	"	43 09'	"	43 09'	"	43 09'	"	0.9374	0.9374
12	y	4/3 0	4043	"	51 20'	"	51 20'	"	51 20'	"	1.2499	1.2499
13	p	8/5 0	8085	"	56 18'	"	56 18'	"	56 18'	"	1.4999	1.4999
14	q	3/2 0	5053	"	57 22'	"	57 22'	"	57 22'	"	1.5623	1.5623
15	u	7/4 0	7074	"	58 38'	"	58 38'	"	58 38'	"	1.6405	1.6405
16	s	20	2021	"	61 55'	"	61 55'	"	61 55'	"	1.8748	1.8748
17	t	30	3031	"	70 25'	"	70 25'	"	70 25'	"	2.8122	2.8122
18	B	10/3 0	10.0.10.3	"	72 15'	"	72 15'	"	72 15'	"	3.1247	3.1247
19	v	40	4041	"	75 04'	"	75 04'	"	75 04'	"	3.7496	3.7496
20	C	50	5051	"	77 57'	"	77 57'	"	77 57'	"	4.6871	4.6871
21	D	60	6061	"	79 55'	"	79 55'	"	79 55'	"	5.6244	5.6244
22	z	1	1121	30 00	58 22'	39 04	54 35	25 12	47 30'	0.8118	1.4061	1.6236

Guarinit.

Rhombisch.

$a = 0.9892$	$\lg a = 9.99528$	$\lg a_0 = 0.12464$	$\lg p_0 = 9.87536$	$a_0 = 1.3324$	$p_0 = 0.7505$
$c = 0.7424$	$\lg c = 9.87064$	$\lg b_0 = 0.12936$	$\lg q_0 = 9.87064$	$b_0 = 1.3470$	$q_0 = 0.7424$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x : y)	y	d =tg ϱ
1	a	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	c	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y	d =tg ϱ
4	g	3 ∞	310	71° 45'	90° 00'	90° 00'	90° 00'	71° 45'	18° 15'	3'0328	∞	∞
5	f	2 ∞	210	63 41	"	"	"	63 41	26 19'	2'0218'	"	"
6	e	∞	110	45 18'	"	"	"	45 18'	44 41'	1'0109'	"	"
7	d	∞ 2	120	26 49	"	"	"	26 49	63 11	0'5054'	"	"
8	y	0 $\frac{1}{2}$	012	0 00	20 22	0 00	20 22	0 00	20 22	0	0'3712	0'3712
9	x	01	011	"	36 35'	"	36 35'	"	36 35'	"	0'7424	0'7424

Gyps.

Monoklin.

a = 0.6895	lg a = 983853	lg a ₀ = 022226	lg p ₀ = 977774	a ₀ = 1.6682	p ₀ = 0.5994
c = 0.4133	lg c = 961627	lg b ₀ = 038373	lg q ₀ = 961093	b ₀ = 2.4195	q ₀ = 0.4083
$\mu = \begin{cases} 81^\circ 02' \\ 180 - \beta \end{cases}$	lg h = $\begin{cases} 999466 \\ \lg \sin \mu \end{cases}$	lg e = $\begin{cases} 919273 \\ \lg \cos \mu \end{cases}$	lg $\frac{p_0}{q_0}$ = 016681	h = 0.9878	e = 0.1559

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90° 00'	8° 58'	8° 58'	0° 00'	8° 58'	0° 00'	0.1578	0	0.1578
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞ 0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	z	3 ∞	310	77 12'	"	"	90 00	77 12'	12 47'	4.4048	∞	"
5	a	2 ∞	210	71 11'	"	"	"	71 11'	18 48'	2.9365'	"	"
6	ψ	∞	320	65 35	"	"	"	65 35	24 25	2.2024	"	"
7	f	∞	110	55 44'	"	"	"	55 44'	34 15'	1.4683	"	"
8	g	∞	230	44 23'	"	"	"	44 23'	45 36'	0.9788'	"	"
9	δ	∞	350	41 22'	"	"	"	41 22'	48 37'	0.8810	"	"
10	h	∞ 2	120	36 17	"	"	"	36 17	53 43	0.7341'	"	"
11	i	∞ 2	250	30 25'	"	"	"	30 25'	59 34'	0.5873	"	"
12	k	∞ 3	130	26 05	"	"	"	26 05	63 55	0.4894	"	"
13	r	∞ 4	140	20 09'	"	"	"	20 09'	69 50'	0.3670'	"	"
14	γ	0 $\frac{2}{3}$	023	29 48	17 37	8 58	15 24'	8 39	15 13'	0.1578	0.2755'	0.3175
15	v	01	011	20 54	23 52	"	22 27'	8 18	22 12'	"	0.4133	0.4424
16	d	+10	101	90 00	37 24	37 24	0 00	37 24	0 00	0.7646'	0	0.7646'
17	λ	+ $\frac{1}{3}$ 0	103	"	19 48	19 48	"	19 48	"	0.3601	"	0.3601
18	e	- $\frac{1}{3}$ 0	103	90 00	2 32'	$\bar{2}$ 32'	"	$\bar{2}$ 32'	"	0.0444'	"	0.0444'
19	β	- $\frac{5}{9}$ 0	109	"	10 10	10 10	"	10 10	"	0.1793	"	0.1793
20	t	-10	101	"	24 11	$\bar{24}$ 11	"	24 11	"	0.4490	"	0.4490
21	l	+1	111	61 36'	41 00	37 24	22 27'	35 15	18 10'	0.7646	0.4133	0.8692

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
22	n	- I	Y 11	47° 22'	31° 23'	24° 11'	22° 27'	22° 32'	20° 39'	0·4489·	0·4133	0·6103
23	u	- $\frac{1}{3}$ I	Y 33	6 06	22 34'	2 32'	"	2 21	22 26	0·0444·	"	0·4157
24	y	+ I 3	1 31	31 39'	55 32'	37 24	51 07	25 38'	44 34	0·7646	1·2399	1·4567
25	x	- 12	1 21	28 30'	43 15	24 11	39 34'	19 05'	37 01	0·4489·	0·8266	0·9407
26	s	- 13	1 31	19 54'	52 49'	"	51 07	15 44'	48 31	"	1·2399	1·3187
27	μ	+ $\frac{5}{3}$	995	59 14'	55 29'	51 20'	36 39	45 05	24 55'	1·2501	0·7439·	1·4547
28	w	- $\frac{1}{3}$	Y 13	17 53	8 14	2 33	7 50'	2 31	7 50	0·0444·	0·1377·	0·1448
29	σ	- $\frac{1}{2}$ $\frac{3}{4}$	2 34	25 09'	18 54	8 17	17 13'	7 55	17 03	0·1455·	0·3100	0·3425
30	ξ	+ $\frac{1}{3}$ $\frac{2}{3}$	1 23	52 34'	24 23'	19 48	15 24'	19 08'	14 32	0·3605	0·2755	0·4534

Hämafibril.

Rhombisch.

a = 0·9142	lg a = 996104	lg a ₀ = 972109	lg p ₀ = 027891	a ₀ = 0·5261	p ₀ = 1·9007
c = 1·7376	lg c = 023995	lg b ₀ = 976005	lg q ₀ = 023995	b ₀ = 0·5755	q ₀ = 1·7376

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	b	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	m	10	101	90° 00	62 15	62 15	"	62 15	"	1·9007	"	1·9007
3	e	$\frac{1}{2}$	112	47 34	52 10	43 32'	40 59	35 39'	32 12	0·9503	0·8689	1·2876

Haidingerit.

Rhombisch.

a = 0·8391	lg a = 992381	lg a ₀ = 992503	lg p ₀ = 007497	a ₀ = 0·8415	p ₀ = 1·1884
c = 0·9972	lg c = 999878	lg b ₀ = 000122	lg q ₀ = 999878	b ₀ = 1·0028	q ₀ = 0·9972

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	d	0∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	f	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	e	∞	110	50 00	"	"	90 00	50 00	40 00	1·1917·	∞	"
4	a	0 $\frac{1}{2}$	012	0 00	26 30	0 00	26 30	0 00	26 30	0	0·4986	0·4986
5	g	$\frac{1}{4}$ 0	104	90 00	16 33	16 33	0 00	16 33	0 00	0·2971	0	0·2971
6	h	10	101	"	49 55	49 55	"	49 55	"	1·1884	"	1·1884
7	i	20	201	"	67 11	67 11	"	67 11	"	2·3768	"	2·3768
8	n	$\frac{5}{2}$ 1	544	56 08	60 48	56 03	44 55	46 27	29 07	1·4855	0·9972	1·7892
9	m	21	211	67 14'	68 47'	67 11	"	59 17	21 08'	2·3768	"	2·5776

Hambergit.

Rhombisch.

$a = 0.7988$	$\lg a = 990244$	$\lg a_0 = 004103$	$\lg p_0 = 995897$	$a_0 = 1.0991$	$p_0 = 0.9098$
$c = 0.7268$	$\lg c = 986141$	$\lg b_0 = 013859$	$\lg q_0 = 986141$	$b_0 = 1.3759$	$q_0 = 0.7268$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{y}$ (Prismen) (x : y)	y	d =tg ϱ
1	b	∞	010	$0^\circ 00$	$90^\circ 00$	$0^\circ 00$	$90^\circ 00$	$0^\circ 00$	$90^\circ 00$	0	∞	∞
2	a	$\infty 0$	100	$90^\circ 00$	"	$90^\circ 00$	$0^\circ 00$	$90^\circ 00$	$0^\circ 00$	∞	0	"
3	m	∞	110	$51^\circ 23$	"	"	$90^\circ 00$	$51^\circ 23$	$38^\circ 37$	1.2519	∞	"
4	e	01	011	$0^\circ 00$	$36^\circ 00$	$0^\circ 00$	$36^\circ 00$	$0^\circ 00$	$36^\circ 00$	0	0.7268	0.7268

Hamlinit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 1.1353$	$\lg c = 005511$	$\lg a_0 = 018345$	$\lg p_0 = 987902$	$a_0 = 1.5256$	$p_0 = 0.7569$	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{y}$ (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	$0^\circ 00$	$0^\circ 00$	$0^\circ 00$	$0^\circ 00$	$0^\circ 00$	0	0	0
2	r	+1	11 $\bar{2}$ 1	$30^\circ 00$	$52^\circ 40$	$33^\circ 14$	$48^\circ 37$	$23^\circ 25$	$43^\circ 31$	0.6555	1.1353	1.3109
3	f	-2	2 $\bar{2}$ 41	"	$69^\circ 07$	$52^\circ 40$	$66^\circ 14$	$27^\circ 51$	$54^\circ 01$	1.3109	2.2706	2.6219

Hanksit.

Hexagonal. Holoedrisch.

$c = 1.7563$	$\lg c = 024459$	$\lg a_0 = 999397$	$\lg p_0 = 006850$	$a_0 = 0.9862$	$p_0 = 1.1709$	(G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{y}$ (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	$0^\circ 00$	$0^\circ 00$	$0^\circ 00$	$0^\circ 00$	$0^\circ 00$	0	0	0
2	m	$\infty 0$	10 $\bar{1}$ 0	$0^\circ 00$	$90^\circ 00$	"	$90^\circ 00$	"	$90^\circ 00$	"	∞	∞
3	?p	$\frac{4}{3}0$	4045	"	$43^\circ 07$	"	$43^\circ 07$	"	$43^\circ 07$	"	0.9367	0.9367
4	o	10	10 $\bar{1}$ 1	"	$49^\circ 30$	"	$49^\circ 30$	"	$49^\circ 30$	"	1.1709	1.1709
5	s	20	20 $\bar{2}$ 1	"	$66^\circ 52$	"	$66^\circ 52$	"	$66^\circ 52$	"	2.3417	2.3417

Hannayit.

Triklin.

$p_0 = 1.4497$	$\lambda = 73^\circ 15'$	$a = 0.6990$	$\alpha = 122^\circ 31'$	$x_0 = 0.3288$	$d = 0.4372$
$q_0 = 0.9627$	$\mu = 65^\circ 28'$	$b = 1$	$\beta = 126^\circ 46'$	$y_0 = 0.2882$	$\delta = 48^\circ 46'$
$r_0 = 1$	$\nu = 112^\circ 58'$	$c = 0.9743$	$\gamma = 54^\circ 09'$	$h = 0.8994$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	c	o	001	48° 46'	25° 55'	20° 05'	17° 46'	19° 12'	16° 45'	0.3656	0.3204	0.4862
2	a	$\infty 0$	100	112 58	90 00	90 00	90 00	67 02	22 58	2.3595	∞	∞
3	l	$\infty 3$	130	29 53	"	"	90 00	29 53	60 07	0.5747	"	"
4	n	∞	110	73 26	"	"	"	73 26	16 34	3.3621	"	"
5	m	$\infty \infty$	110	138 52	"	"	90 00	41 08	48 52	0.8733	"	"
6	o	$\frac{1}{3} \bar{1}$	$\bar{1}33$	166 49	29 31	$\bar{7} 21$	$\bar{2}8 52$	$\bar{6} 27$	$\bar{2}8 40$	0.1290	0.5513	0.5662

Harmotom.

Monoklin.

$a = 0.7031$	$\lg a = 984702$	$\lg a_0 = 975676$	$\lg p_0 = 024324$	$a_0 = 0.5712$	$p_0 = 1.7508$
$c = 1.2310$	$\lg c = 009026$	$\lg b_0 = 990974$	$\lg q_0 = 000451$	$b_0 = 0.8123$	$q_0 = 1.0139$
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 55^\circ 10'$	$\lg h = \left. \begin{matrix} \\ \end{matrix} \right\} 991425$	$\lg e = \left. \begin{matrix} \\ \end{matrix} \right\} 975678$	$\lg \frac{p_0}{q_0} = 023873$	$h = 0.8208$	$e = 0.5712$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	a	o	001	90° 00'	34° 50'	34° 50'	0° 00'	34° 50'	0° 00'	0.6959	0	0.6959
2	b	$\infty 0$	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	s	$\infty \infty$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	v	4∞	410	81 47	"	"	90 00	81 47	8 12	6.9309	∞	"
5	w	$\frac{2}{3} \infty$	520	77 00	"	"	"	77 00	13 00	4.3318	"	"
6	p	∞	110	60 00	"	"	"	60 00	29 59	1.7327	"	"
7	e	$\frac{1}{2} 0$	702	90 00	83 01	83 01	0 00	83 01	0 00	8.1613	0	8.1613
8	t	$\frac{1}{10}$	101	"	70 32	70 32	"	70 32	"	2.8287	"	2.8287
9	f	-10	101	90 00	55 10	55 10	"	55 10	"	1.4371	"	1.4371

Harstigit.

Rhombisch.

$a = 0.7141$	$\lg a = 985376$	$\lg a_0 = 984733$	$\lg p_0 = 015267$	$a_0 = 0.7036$	$p_0 = 1.4213$
$c = 1.0149$	$\lg c = 000643$	$\lg b_0 = 999357$	$\lg q_0 = 000643$	$b_0 = 0.9853$	$q_0 = 1.0149$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	n	2∞	210	70 21	"	"	90 00	70 21	19 39	2.8008	∞	"
4	m	∞	110	54 28	"	"	"	54 28	35 32	1.4004	"	"
5	p	01	011	0 00	45 25	0 00	45 25	0 00	45 25	0	1.0149	1.0149
6	s	$\frac{1}{2}1$	122	35 00	51 05	35 24	"	26 30	39 36	0.7106	"	1.2390

Hatchettolith.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\begin{array}{l} 001 \\ 010 \end{array}$	$\begin{array}{l} - \\ 0^\circ 00 \end{array}$	$\begin{array}{l} 0^\circ 00 \\ 90 00 \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \end{array}$	$\begin{array}{l} 0^\circ 00 \\ 90 00 \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \end{array}$	$\begin{array}{l} 0^\circ 00 \\ 90 00 \end{array}$	$\begin{array}{l} 0 \\ " \end{array}$	$\begin{array}{l} 0 \\ \sim \end{array}$	$\begin{array}{l} 0 \\ \infty \end{array}$
2	m	$\left\{ \begin{array}{l} \frac{1}{3} \\ 13 \end{array} \right.$	$\begin{array}{l} 113 \\ 131 \end{array}$	$\begin{array}{l} 45 00 \\ 18 26 \end{array}$	$\begin{array}{l} 25 14' \\ 72 27 \end{array}$	$\begin{array}{l} 18 26 \\ 45 00 \end{array}$	$\begin{array}{l} 18 26 \\ 71 34 \end{array}$	$\begin{array}{l} 17 33 \\ " \end{array}$	$\begin{array}{l} 17 33 \\ 64 45' \end{array}$	$\begin{array}{l} 0.3333 \\ 1.0000 \end{array}$	$\begin{array}{l} 0.3333 \\ 3.0000 \end{array}$	$\begin{array}{l} 0.4714 \\ 3.1623 \end{array}$
3	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1.0000	1.4142

Hauchecornit.

Tetragonal.

$\left. \begin{array}{l} c \\ p_0 \end{array} \right\} = 1.0521$	$\lg c = 002206$	$\lg a_0 = 997794$	$a_0 = 0.9505$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	-	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1.0000	"	"
4	e	01	011	0 00	46 27	0 00	46 27	0 00	46 27	0	1.0521	1.0521
5	q	$\frac{1}{2}$	112	45 00	36 39	27 45	27 45	24 58	24 58	0.5260	0.5260	0.7439
6	p	1	111	"	56 05	46 27	46 27	35 56	35 56	1.0521	1.0521	1.4879

Hauerit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0 ∞	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
			010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	a	0 $\frac{1}{3}$ 03 ∞3	013	"	18 26	"	18 26	"	18 26	"	0'3333	0'3333
			031	"	71 34	"	71 34	"	71 34	"	3'0000	3'0000
			130	18 26	90 00	90 00	90 00	18 26	"	0'3333	∞	∞
3	e	0 $\frac{1}{2}$ 02 ∞2	012	0 00	26 34	0 00	26 34	0 00	26 34	0	0'5000	0'5000
			021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
			120	26 34	90 00	90 00	90 00	26 34	"	0'5000	∞	∞
4	d	01 ∞	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
5	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1'0000	1'4142
6	x	1 $\frac{2}{3}$ 1 $\frac{1}{2}$ 23	123	26 34	36 42	18 26	33 41'	15 30	32 18'	0'3333	0'6667	0'7453
			132	18 26	57 41'	26 34	56 18'	"	53 18	0'5000	1'5000	1'5811
			231	33 41'	74 30	63 26	71 34	32 18'	"	2'0000	3'0000	3'6055

Hausmannit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1'1554 \quad \lg c = 006273 \quad \lg a_0 = 993727 \quad a_0 = 0'8655$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	∞	110	45°00	90 00	90 00	90 00	45 00	45 00	1'0000	∞	∞
3	d	01	011	0 00	49 07'	0 00	49 07'	0 00	49 07'	0	1'1554	1'1554
4	f	02	021	"	66 36	"	66 36	"	66 36	"	2'3107	2'3107
5	s	$\frac{1}{3}$	113	45 00	28 34'	21 04	21 04	19 46	19 46	0'3851	0'3851	0'5446
6	?z	$\frac{5}{11}$	5'5'11	"	36 36	27 42'	27 42'	24 56	24 56	0'5252	0'5252	0'8170
7	σ	$\frac{1}{2}$	112	"	39 15	30 01	30 01	26 34'	26 34'	0'5777	0'5777	0'7742
8	v	$\frac{3}{8}$	335	"	44 26	34 44	34 44	29 40'	29 40'	0'6932	0'6932	0'9804
9	u	$\frac{2}{3}$	223	"	47 27	37 36'	37 36'	31 23'	31 23'	0'7702	0'7702	1'0893
10	e	1	111	"	58 32	49 07'	49 07'	37 05'	37 05'	1'1553	1'1553	1'6339
11	n	2	221	"	72 59	66 36	66 36	42 32'	42 32'	2'3108	2'3108	3'2679
12	r	$\frac{1}{3}$ 1	133	18 26	50 36'	21 04	49 07'	14 09	47 09'	0'3851	1'1554	1'2179
13	t	$\frac{1}{4}$ 1	144	14 02	49 59	16 06'	"	10 42	47 59	0'2888	"	1'1909

Hauyn.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
			010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
2	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	012	"	26 34	"	26 34	"	26 34	"	0'5000	0'5000
			021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
			120	26 34	90°00	90°00	90°00	26 34	"	0'5000	∞	∞
3	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
			110	45 00	90°00	90°00	90°00	45 00	"	1'0000	∞	∞
4	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112	"	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
5	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142

Hedyphan.

Hexagonal. Holoedrisch.

$$c = 1'2234 \quad \lg c = 008757 \quad \lg a_0 = 015099 \quad \lg p_0 = 991148 \quad a_0 = 1'4125 \quad p_0 = 0'8156 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	$\infty 0$	1010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	r	$\frac{1}{2} 0$	1012	"	22 11	"	22 11	"	22 11	"	0'4078	0'4078
4	x	10	1011	"	39 12	"	39 12	"	39 12	"	0'8156	0'8156
5	y	20	2021	"	58 29'	"	58 29'	"	58 29'	"	1'6312	1'6312
6	v	$\frac{1}{2} 1$	1122	30°00	35 14	19 27	31 27	16 46	29 58'	0'3532	0'6117	0'7063
7	s	1	1121	"	54 42'	35 14	50 44'	24 05	44 58'	0'7063	1'2234	1'4127

Heldburgit.

Tetragonal.

$$\left. \begin{array}{l} c \\ p_0 \end{array} \right\} = 0'75 \quad \lg c = 987506 \quad \lg a_0 = 012494 \quad a_0 = 1'3333$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	m	∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	a	∞	110	45°00	"	90°00	"	45°00	45°00	1'0000	"	"
3	u	1	111	"	46 41	36 52	36 52	30 58	30 58	0'7500	0'7500	1'0606

Helvin.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\begin{matrix} 011 \\ 110 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 90 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ " \end{matrix}$	$\begin{matrix} " \\ 1'0000 \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$
3	pp'	+1	111	"	54 44	45 00	45 00	35 16	35 16	"	1'0000	1'4142
4	q	$\left\{ \begin{matrix} +\frac{1}{2} \\ +\frac{1}{12} \end{matrix} \right.$	$\begin{matrix} 112 \\ 121 \end{matrix}$	$\begin{matrix} " \\ 26 34 \end{matrix}$	$\begin{matrix} 35 16 \\ 65 54 \end{matrix}$	$\begin{matrix} 26 34 \\ 45 00 \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \end{matrix}$	$\begin{matrix} 24 05 \\ " \end{matrix}$	$\begin{matrix} 24 05 \\ 54 44 \end{matrix}$	$\begin{matrix} 0'5000 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'5000 \\ 2'0000 \end{matrix}$	$\begin{matrix} 0'7071 \\ 2'2360 \end{matrix}$
5	w	$\left\{ \begin{matrix} +\frac{2}{3}1 \\ +\frac{3}{2} \end{matrix} \right.$	$\begin{matrix} 233 \\ 132 \end{matrix}$	$\begin{matrix} 33 41' \\ 45 00 \end{matrix}$	$\begin{matrix} 50 14' \\ 64 45' \end{matrix}$	$\begin{matrix} 33 41' \\ 56 18' \end{matrix}$	$\begin{matrix} 45 00 \\ 56 18' \end{matrix}$	$\begin{matrix} 25 14' \\ 39 45' \end{matrix}$	$\begin{matrix} 39 45' \\ " \end{matrix}$	$\begin{matrix} 0'6667 \\ 1'5000 \end{matrix}$	$\begin{matrix} 1'0000 \\ 1'5000 \end{matrix}$	$\begin{matrix} 1'2019 \\ 2'1213 \end{matrix}$

Herderit.

(Hydroherderit.)

Monoklin.

a = 0'6307	lg a = 979982	lg a ₀ = 999289	lg p ₀ = 000711	a ₀ = 0'9838	p ₀ = 1'0165
c = 0'6411	lg c = 980693	lg b ₀ = 019307	lg q ₀ = 980693	b ₀ = 1'5598	q ₀ = 0'6411
$\left. \begin{matrix} \mu \\ 180 - \beta \end{matrix} \right\} 89^\circ 54'$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 0$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 724188$	lg $\frac{p_0}{q_0}$ = 020018	h = 1'0000	e = 0'0017

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	0°06	0°06	0°00	0°06	0°00	0'0017	0	0'0017
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	90 00	0 00	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	57 45'	90 00	"	90 00	57 45'	32 14'	1'5855	∞	"
5	l	$\infty 2$	120	38 24'	"	"	"	38 24'	51 35'	0'7928	"	"
6	μ	$\infty 3$	130	27 51'	"	"	"	27 51'	62 08'	0'5285	"	"
7	u	$0\frac{2}{3}$	023	0 14	23 08'	0 06	23 08'	0 05'	23 08'	0'0017	0'4274	0'4274
8	t	01	011	0 09'	32 40	"	32 40	0 05	32 40	"	0'6411	0'6411
9	v	02	021	0 04'	52 03	"	52 03	0 03'	52 03	"	1'2822	1'2822
10	s	04	041	0 02'	68 42	"	68 42	0 02	68 42	"	2'5644	2'5644
11	d	$+\frac{3}{2}0$	203	90 00	34 11'	34 11'	0 00	34 11'	0 00	0'6794	0	0'6794
12	e	+10	101	"	45 31	45 31	"	45 31	"	1'0182	"	1'0182
13	e	-10	101	90 00	45 25	45 25	"	45 25	"	1'0147	"	1'0147
14	d	-20	201	"	63 47'	63 47'	"	63 47'	"	2'1312	"	2'1312

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
15	r	$+\frac{1}{3}$	113	57° 53'	21° 54'	18° 48'	12° 04'	18° 25'	11° 26'	0'3405	0'2137	0'4020
16	p	$+\frac{2}{3}$	223	57 49'	38 45'	34 11'	23 08'	31 59'	19 28'	0'6794	0'4274	0'8027
17	q	+1	111	57 48'	50 16'	45 31'	32 40'	40 36'	24 11'	1'0182	0'6411	1'2032
18	q	-1	111	57 43'	50 12'	45 25'	"	40 30'	24 13'	1'0147	"	1'2003
19	n	+2	221	57 47'	67 25'	63 49'	52 03'	51 22'	29 29'	2'0347	1'2822	2'4050
20	n	-2	221	57 44'	67 24'	63 47'	"	51 19'	29 31'	2'0312	"	2'4021
21	o	$+\frac{8}{3}$	883	57 46'	72 40'	69 45'	59 40'	53 52'	30 36'	2'7124	1'7096	3'2062
22	j	$-\frac{1}{3}$ 1	122	38 18'	39 15'	26 51'	32 40'	23 05'	29 46'	0'5065	0'6411	0'8170
23	x	-12	121	38 21'	58 33'	45 25'	52 03'	31 58'	41 59'	1'0147	1'2822	1'6352
24	w	$+\frac{1}{2}$ 2	142	21 41'	54 04'	27 01'	"	17 25'	48 48'	0'5100	"	1'3799
25	z	$-\frac{1}{2}$ 3	132	27 46'	47 23'	26 52'	43 53'	20 03'	40 37'	0'5065	0'9617	1'0869
26	p	$-\frac{2}{3}$ 26	261	27 50'	77 03'	63 47'	75 25'	27 04'	59 31'	2'0312	3'8467	4'3500
27	k	$+\frac{1}{3}$ 2	123	38 33'	28 39'	18 48'	23 08'	17 23'	22 01'	0'3405	0'4274	0'5465
28	r	$-\frac{2}{3}$ 3	243	38 20'	47 27'	34 03'	40 32'	27 11'	35 18'	0'6759	0'8548	1'0897

Herregrundit.

Monoklin.

a = 1'8161	lg a = 025914	lg a ₀ = 011295	lg p ₀ = 988705	a ₀ = 1'2970	p ₀ = 0'7710
c = 1'4002	lg c = 014619	lg b ₀ = 985381	lg q ₀ = 014610	b ₀ = 0'7142	q ₀ = 1'3999
$\mu = \left. \begin{matrix} 88^\circ 50' \\ 180 - \beta \end{matrix} \right\}$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 999991$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 830879$	$\lg \frac{p_0}{q_0} = 974095$	h = 0'9998	e = 0'0204

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	c	0	001	90° 00'	1° 10'	1° 10'	0° 00'	1° 10'	0° 00'	0'0204	0	0'0204
2	m	∞	110	28 50'	90 00'	90 00'	90 00'	28 50'	61 09'	0'5507	∞	∞
3	s	$\infty \frac{5}{4}$	450	34 33'	"	"	"	34 33'	55 27'	0'6884	"	"
4	η	$\infty \frac{3}{5}$	350	42 33'	"	"	"	42 33'	47 27'	0'9179	"	"
5	ε	+10	101	90 00'	38 22'	38 22'	0 00'	38 22'	0 00'	0'7916	0	0'7916
6	e	-10	101	90 00'	36 54'	36 54'	"	36 54'	"	0'7508	"	0'7508
7	q	-2	221	28 31'	72 35'	56 41'	70 21'	27 06'	56 58'	1'5219	2'8004	3'1872

Hessenbergit.

Hexagonal (?)

$c = 2.707$	$\lg c = 0.43249$	$\lg a_0 = 9.80607$	$\lg p_0 = 0.25640$	$a_0 = 0.6398$	$p_0 = 1.8047$	(G_1)
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No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d =tg ρ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	i	4∞	4150	10 53'	"	"	"	10 53'	79 06'	0.1924	"	"
5	p	1/3 0	1013	0 00	31 01	0 00	31 01	0 00	31 01	0	0.6014	0.6014
6	n	10	1011	"	61 00	"	61 00	"	61 00	"	1.8040	1.8040
7	e	1/6	1126	30 00	27 30'	14 35'	24 16'	13 21	23 35	0.2604	0.4510	0.5208

Hessit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d =tg ρ
1	c	{ 0 0∞	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	a	{ 0 1/3 03 ∞3	013 031 130	" " 18 26	18 26 90 00	" 90 00	18 26 90 00	" 18 26	18 26 71 34 "	" " 0.3333	0.3333 3.0000 ∞	0.3333 3.0000 ∞
3	e	{ 0 1/2 02 ∞2	012 021 120	0 00 " 26 34	26 34 90 00	0 00 90 00	26 34 90 00	0 00 26 34	26 34 63 26 "	0 " 0.5000	0.5000 2.0000 ∞	0.5000 2.0000 ∞
4	d	{ 01 ∞	011 110	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	45 00 "	0 1.0000	1.0000 ∞	1.0000 ∞
5	m	{ 1/3 13	113 131	" 18 26	25 14' 72 27	18 26 45 00	18 26 71 34	17 33 "	17 33 64 45'	0.3333 1.0000	0.3333 3.0000	0.4714 3.1623
6	q	{ 1/2 12	112 121	45 00 26 34	35 16 65 54'	26 34 45 00	26 34 63 26	24 05' "	24 05' 54 44	0.5000 1.0000	0.5000 2.0000	0.7071 2.2360
7	n	{ 2/3 1 3/2	223 232	45 00 33 41'	43 19 60 59	33 41' 45 00	33 41' 56 18'	29 01 "	29 01 46 41	0.6667 1.0000	0.6667 1.5000	0.9428 1.8028
8	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1.0000	1.4142
9	v	{ 1/3 1 3	133 331	18 26 45 00	46 30' 76 44	18 26 71 34	" 71 34	13 16 43 29'	43 29' "	0.3333 3.0000	" 3.0000	1.0541 4.2426
10	u	{ 1/2 1 2	122 221	26 34 45 00	48 11' 70 31'	26 34 63 26	45 00 63 26	19 28 41 48'	41 48' "	0.5000 2.0000	1.0000 2.0000	1.1180 2.8284

Heulandit.

Monoklin.

$a = 0.4035$	$lga = 960584$	$lga_o = 967210$	$lg p_o = 032790$	$a_o = 0.4700$	$p_o = 2.1276$
$c = 0.8585$	$lg c = 993374$	$lgb_o = 006626$	$lg q_o = 993361$	$b_o = 1.1648$	$q_o = 0.8582$
$\mu = \left. \begin{matrix} 88^\circ 35 \\ 180 - \beta \end{matrix} \right\}$	$lgh = \left. \begin{matrix} 999987 \\ lg \sin \mu \end{matrix} \right\}$	$lge = \left. \begin{matrix} 839310 \\ lg \cos \mu \end{matrix} \right\}$	$lg \frac{p_o}{q_o} = 039429$	$h = 0.9997$	$e = 0.0247$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	c	o	001	90° 00	1° 25	1° 25	0° 00	1° 25	0° 00	0° 0247	o	0° 0247
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	m	∞	110	68 02	"	"	90 00	68 02	21 58	2'4790'	∞	"
5	x	01	011	1 39	40 39'	1 25	40 39	1 04'	40 38	0° 0857'	0.8585	0.8589
6	t	+10	101	90 00	65 05	65 05	0 00	65 05	0 00	2'1530	o	2'1530
7	s	-10	101	90 00	64 34	64 34	"	64 34	"	2'1035	"	2'1035
8	u	- $\frac{1}{2}$	112	67 33'	48 21'	46 06'	23 14	43 41	16 34'	1° 0393	0.4292'	1° 1246
9	p	-1	111	67 48	66 14'	64 34'	40 39	57 56	20 14	2'1035	0.8585	2'2720

Hjelmit.

Rhombisch.

$a = 0.4645$	$lga = 966699$	$lga_o = 965567$	$lg p_o = 034433$	$a_o = 0.4526$	$p_o = 2.2097$
$c = 1.0264$	$lg c = 001132$	$lgb_o = 998868$	$lg q_o = 001132$	$b_o = 0.9743$	$q_o = 1.0264$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d = $tg \varrho$
1	m	∞	110	65° 05	90° 00	90° 00	90° 00	65° 05	24° 55	2'1529	∞	∞
2	p	$\infty \frac{3}{2}$	230	55 08	"	"	"	55 08	34 52	1'4352	"	"
3	r	10	101	90 00	65 39	65 39	0 00	65 39	0 00	2'2097	o	2'2097
4	q	20	201	"	77 15	77 15	"	77 15	"	4'4194	"	4'4194

Hieratit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d = $tg \varrho$
1	c	$\left\{ \begin{matrix} o \\ o\infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	$\left\{ \begin{matrix} - \\ 0^\circ 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} o \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} o \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} o \\ \infty \end{matrix} \right.$
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1'0000	1'0000	1'4142

Hintzeit.

Monoklin.

$a = 2'1937$	$lg a = 034120$	$lga_0 = 010220$	$lg p_0 = 989780$	$a_0 = 1'2653$	$p_0 = 0'7903$
$c = 1'7338$	$lg c = 023900$	$lgb_0 = 976100$	$lg q_0 = 023262$	$b_0 = 0'5768$	$q_0 = 1'7085$
$\mu = \left. \begin{matrix} 80^\circ 12 \\ 180 - \beta \end{matrix} \right\}$	$lg h = \left. \begin{matrix} 999362 \\ lgsin \mu \end{matrix} \right\}$	$lge = \left. \begin{matrix} 923098 \\ lg \cos \mu \end{matrix} \right\}$	$lg \frac{p_0}{q_0} = 966518$	$h = 0'9854$	$e = 0'1702$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	c	0	001	90° 00	9° 48	9° 48	0° 00	9° 48	0° 00	0'1727	0	0'1727
2	a	∞0	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	m	∞	110	24 49'	"	"	90 00	24 49'	65 10'	0'4625'	∞	"
4	x	-10	101	90 00	32 11	32 11	0 00	32 11	0 00	0'6292	0	0'6292
5	n	+1	111	29 20'	63 18'	44 16	60 01'	25 58	51 09	0'9747	1'7338	1'9890
6	r	+31	311	56 05	72 10	68 48'	"	52 11	32 05	2'5786'	"	3'1073
7	o	-½	112	14 45	41 52'	12 51'	40 55'	9 47	40 12	0'2283	0'8669	0'8964

Hiortdahlit.

Triklin.

$p_0 = 0'3518$	$\lambda = 90^\circ 37$	$a = 0'9983$	$\alpha = 89^\circ 22$	$x_0 = 0'0109$	$d = 0'0152$
$q_0 = 0'3512$	$\mu = 89^\circ 23$	$b = 1$	$\beta = 90^\circ 37$	$y_0 = 0'0106$	$\delta = 44^\circ 15$
$r_0 = 1$	$\nu = 89^\circ 53$	$c = 0'3512$	$\gamma = 90^\circ 06$	$h = 0'9999$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	b	00	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	a	∞0	100	89 53	"	90 00	"	89 53	0 07	491.1	"	"
3	g	∞2	120	26 35	"	"	"	26 35	63 25	0'5003	"	"
4	m	∞	110	44 59'	"	"	"	44 59'	45 00'	0'9997	"	"
5	l	∞2	210	63 23	"	"	"	63 23	26 37	1'9955	"	"
6	h	2∞	210	116 26	"	"	90 00	63 34	26 26	2'0115	"	"
7	M	∞∞	110	134 53'	"	"	"	45 06'	64 53'	1'0037	"	"
8	k	∞2	120	153 22'	"	"	"	26 37'	63 22'	0'5013	"	"
9	v	10	101	88 14	19 57	19'56'	0 38'	19 56	0 36	0'3627	0'0112	0'3629
10	p	1	111	45 01'	27 09	"	19 55'	18 50	18 49	"	0'3624	0'5128
11	e	11	111	133 09	26 26	"	18 47	18 57	17 43'	"	0'3400	0'4972
12	g	1	111	135 01'	25 45	18 49'	18 50'	17 53	17 54	0'3409	0'3412	0'4824
13	x	31	311	71 10'	48 24'	46 50'	19 59	45 04	13 58	1'0664	0'3636	1'1267
14	z	31	311	107 37'	48 13	"	18 43	45 17	13 03	"	0'3388	1'1190
15	y	31	311	108 09	47 42'	46 15	18 54	44 40	13 19'	1'0446	0'3424	1'0993

Homilit.

Monoklin.

a = 0.6249	lg a = 979581	lg a _c = 968778	lg p _o = 031222	a _o = 0.4873	p _o = 2.0522
c = 1.2824	lg c = 010803	lg b _o = 989197	lg q _o = 010800	b _o = 0.7798	q _o = 1.2823
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 89^\circ 21$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 999997$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 805478$	lg $\frac{p_o}{q_o}$ = 020422	h = 0.9999	e = 0.0113

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	0°39	0°39	0°00	0°39	0°00	0.0113	o	0.0113
2	b	o∞	010	o 00	90 00	o 00	90 00	o 00	90 00	o	∞	∞
3	a	∞o	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"
4	n	∞	110	58 00	"	"	90 00	58 00	32 00	1.6003	∞	"
5	l	∞2	120	38 40	"	"	"	38 40	51 20	0.8002	"	"
6	?π	o $\frac{2}{7}$	027	1 46'	20 08	o 39	20 07'	o 36'	20 07'	0.0113	0.3664	0.3666
7	e	o $\frac{1}{3}$	013	1 31	23 09	"	23 09	o 36	23 08'	"	0.4275	0.4276
8	w	o $\frac{1}{2}$	012	1 01	32 40'	"	32 40	o 33	32 40	"	0.6412	0.6413
9	g	o $\frac{3}{4}$	034	o 40'	43 53	"	43 53	o 28	43 53	"	0.9618	0.9619
10	q	o1	011	o 30'	52 03'	"	52 03	o 24	52 03	"	1.2824	1.2825
11	ϱ	o $\frac{6}{8}$	098	o 27	55 16'	"	55 16'	o 22	55 16'	"	1.4427	1.4427
12	y	o2	021	o 15	68 42	"	68 42	o 14	68 42	"	2.5648	2.5648
13	x	$\frac{1}{2}$ o	102	90 00	46 03	46 03	o 00	46 03	o 00	1.0375	o	1.0375
14	p	$\frac{1}{2}$ 1	111	58 08'	67 38	64 09	52 03	51 45'	29 13	2.0636	1.2824	2.4296
15	β	$\frac{1}{2}$	112	58 17	50 39	46 03	32 40	41 08	23 59'	1.0375	0.6412	1.2196
16	δ	$-\frac{1}{4}$	114	57 25	30 46	26 38'	17 46'	25 32	15 59'	0.5017	0.3206	0.5954
17	o	-1	111	57 51'	67 28	63 54	52 03	51 27	29 26	2.0410	1.2824	2.4104
18	Y	$+\frac{1}{2}$ 1	122	38 58'	58 46'	46 03	"	32 32	41 40	1.0375	"	1.6495
19	n	$+\frac{1}{4}$ $\frac{1}{2}$	124	39 16'	39 38	27 40'	32 40	23 49	29 35'	0.5244	0.6412	0.8283
20	?τ	$+\frac{1}{6}$ $\frac{1}{2}$	2.5.10	33 20	37 30'	22 52	"	19 33	30 34'	0.4217	"	0.7675
21	v	$+\frac{1}{2}$ $\frac{1}{2}$	1.6.12	15 52'	33 41'	10 20	"	8 43'	32 14'	0.1841	"	0.6666
22	γ	+42	421	72 40'	83 22'	83 04	68 42	71 29	17 12'	8.2207	2.5648	8.6114
23	α	-42	421	72 37'	83 21'	83 03	"	71 26	17 15	8.1980	"	8.5900

Hopeit.

Rhombisch.

$a = 0.5723$	$\lg a = 975762$	$\lg a_0 = 008386$	$\lg p_0 = 991614$	$a_0 = 1.2130$	$p_0 = 0.8244$
$c = 0.4718$	$\lg c = 967376$	$\lg b_0 = 032624$	$\lg q_0 = 967376$	$b_0 = 2.1195$	$q_0 = 0.4718$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	?y	3∞	310	79 12	"	"	90 00	79 12	10 48	5.2420	∞	"
5	x	$\frac{2}{3}\infty$	320	69 07	"	"	"	69 07	20 53	2.6210	"	"
6	m	∞	110	60 13	"	"	"	60 13	29 47	1.7473	"	"
7	s	∞2	120	41 08	"	"	"	41 08	48 51	0.8737	"	"
8	u	$\frac{1}{3}0$	103	90 00	15 22	15 22	0 00	15 22	0 00	0.2748	0	0.2748
9	e	10	101	"	39 30	39 30	"	39 30	"	0.8244	"	0.8244
10	?d	20	201	"	58 46	58 46	"	58 46	"	1.6488	"	1.6488
11	r	1	111	60 13	43 31	30 30	25 15	36 42	20 00	0.8244	0.4718	0.9499

Humboldtilith.

Tetragonal.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.4548$	$\lg c = 965782$	$\lg a_0 = 034218$	$a_0 = 2.1987$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1.0000	"	"
4	f	∞2	120	26 34	"	"	"	26 34	63 26	0.5000	"	"
5	e	01	011	0 00	24 27	0 00	24 27	0 00	24 27	0	0.4548	0.4548
6	r	1	111	45 00	32 45	24 27	"	22 29	22 29	0.4548	"	0.6432

Humit.

Rhombisch.

a = 2'2007	lg a = 034256	lg a ₀ = 030902	lg p ₀ = 969098	a ₀ = 2'0371	p ₀ = 0'4909
c = 1'0803	lg c = 003354	lg b ₀ = 996646	lg q ₀ = 003354	b ₀ = 0'9257	q ₀ = 1'0803

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϵ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	0∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	B	$\frac{1}{2}\infty$	520	48 38'	"	"	90 00	48 38'	51 21'	1'1360	∞	"
5	C	$\frac{1}{2}\infty$	320	34 16'	"	"	"	34 16'	55 43'	0'6816	"	"
6	E	∞2	120	12 48	"	"	"	12 48	77 12	0'2272	"	"
7	L	0 $\frac{2}{3}$	023	0 00	35 45'	0 00	35 45'	0 00	35 45'	0	0'7202	0'7202
8	M	01	011	"	47 12'	"	47 12'	"	47 12'	"	1'0803	1'0803
9	N	02	021	"	65 10	"	65 10	"	65 10	"	2'1606	2'1606
10	R	$\frac{1}{4}0$	104	90 00	7 00	7 00	0 00	7 00	0 00	0'1227	0	0'1227
11	W	$\frac{1}{2}0$	102	"	13 47'	13 47'	"	13 47'	"	0'2454	"	0'2454
12	P	10	101	"	26 08	26 08	"	26 08	"	0'4909	"	0'4909
13	?a	$\frac{7}{6}0$	706	"	29 48	29 48	"	29 48	"	0'5727	"	0'5727
14	Y	$\frac{3}{2}0$	302	"	36 22	36 22	"	36 22	"	0'7363	"	0'7363
15	O	20	201	"	44 28'	44 28'	"	44 28'	"	0'9818	"	0'9818
16	K	$\frac{5}{2}0$	502	"	50 49'	50 49'	"	50 49'	"	1'2272	"	1'2272
17	G	$\frac{3}{2}0$	301	"	55 49'	55 49'	"	55 49'	"	1'4726'	"	1'4726'
18	?b	$\frac{7}{2}0$	702	"	59 48	59 48	"	59 48	"	1'7181	"	1'7181
19	e	1	111	24 26	49 52'	26 08'	47 20'	18 26'	44 07	0'4909	1'0803	1'1866
20	d	2	221	"	67 09	44 28'	65 10	22 24'	57 02	0'9817'	2'1606	2'3732
21	n	$\frac{1}{2}1$	122	12 48	47 55'	13 47'	47 20'	9 28	46 22'	0'2454'	1'0803	1'1078
22	r	$\frac{3}{2}1$	322	34 16'	52 35	36 22	"	26 34'	41 01	0'7363'	"	1'3073
23	k	12	121	12 48	65 42'	26 08'	65 10	11 39	62 43'	0'4909	2'1606	2'2156
24	α	32	321	34 16'	69 04	55 49'	"	31 44'	50 31	1'4726'	"	2'6147
25	ε	42	421	42 16	71 05'	63 06	"	39 31	44 26	1'9635'	"	2'9195
26	ϑ	52	521	48 38'	72 59'	67 50	"	45 52'	39 11'	2'4544	"	3'2698

Humit-Gruppe Chondroit.

Monoklin.

$a = 1.6624$	$lg a = 0.22073$	$lg a_0 = 0.18602$	$lg p_0 = 981398$	$a_0 = 1.5343$	$p_0 = 0.6516$
$c = 1.0832$	$lg c = 0.03471$	$lg b_0 = 996529$	$lg q_0 = 001034$	$b_0 = 0.9232$	$q_0 = 1.0241$
$\mu = \left. \begin{matrix} 70^\circ 59' \\ 180 - \beta \end{matrix} \right\}$	$lg h = \left. \begin{matrix} 997563 \\ lg \sin \mu \end{matrix} \right\}$	$lg e = \left. \begin{matrix} 951301 \\ lg \cos \mu \end{matrix} \right\}$	$lg \frac{p_0}{q_0} = 980364$	$h = 0.9454$	$e = 0.3259$

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x' (Prismen) (x : y)	y'	d' = tg ρ
1	c	0	001	90° 00	19° 01	19° 01	0° 00	19° 01	0° 00	0° 3446'	0	0° 3446'
2	b	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	B	2∞	210	51 50'	"	"	90 00	51 50'	38 09'	1° 2725	∞	"
5	D	∞	110	32 28	"	"	"	32 28	57 32	0° 6363	"	"
6	E	∞2	120	17 39	"	"	"	17 39	72 21	0° 3181	"	"
7	L	0 $\frac{2}{3}$	023	15 31	38 40	19 11	35 50	15 36'	34 19'	0° 3446'	0° 7221	0° 8002
8	M	01	011	17 39	48 40	"	47 17	13 09'	45 41'	"	1° 0832	1° 1367
9	N	02	021	9 02'	65 29'	"	65 13'	8 13	63 58'	"	2° 1664	2° 1936
10	O	+20	201	90 00	59 52'	59 52'	0 00	59 52'	0 00	1° 7231	0	1° 7231
11	P	+10	101	"	45 57'	45 57'	"	45 57'	"	1° 0339	"	1° 0339
12	X	+ $\frac{1}{2}$ 0	102	"	34 35	34 35	"	34 35	"	0° 6893	"	0° 6893
13	Q	+ $\frac{1}{3}$ 0	103	"	29 52'	29 52'	"	29 52'	"	0° 5744'	"	0° 5744'
14	Δ	- $\frac{1}{6}$ 0	108	"	14 29'	14 29'	"	14 29'	"	0° 2585	"	0° 2585
15	R	- $\frac{1}{4}$ 0	104	"	9 47	9 47	"	9 47	"	0° 1724	"	0° 1724
16	W	- $\frac{1}{2}$ 0	102	"	0 00	0 00	"	0 00	"	0° 0001	"	0° 0001
17	S	-10	101	90 00	19 00'	19 00'	"	19 00'	"	0° 3445	"	0° 3445
18	T	- $\frac{2}{3}$ 0	403	"	29 52	29 52	"	29 52	"	0° 5742	"	0° 5742
19	U	-20	201	"	45 57	45 57	"	45 57	"	1° 0337	"	1° 0337
20	d	+2	221	38 30	70 08	59 52	65 13'	35 50	47 24	1° 7230'	2° 1664	2° 7681
21	e	+1	111	43 40	56 16	45 57'	47 17	35 02'	36 59	1° 0339	1° 0832	1° 4974
22	w	+ $\frac{2}{3}$	223	48 04'	47 13'	38 48'	35 50	33 06	29 22	0° 8042	0° 7221	1° 0808
23	f	- $\frac{1}{2}$	112	0 00	28 26'	0 00	28 26'	0 00	28 26'	0° 0001	0° 5416	0° 5416
24	g	- $\frac{2}{3}$	223	9 02	36 10'	6 33	35 50	5 19	35 39'	0° 1147	0° 7221	0° 7312
25	h	-1	111	12 26	47 58	13 25'	47 17	9 12	46 30	0° 2387	1° 0832	1° 1092
26	i	-2	221	25 30'	67 23	45 57	65 13'	23 25'	56 25	1° 0337	2° 1664	2° 4004
27	k	+12	121	25 31	"	45 57'	"	23 25'	"	1° 0339	"	2° 4005
28	t	-12	121	9 02	65 29'	19 00'	"	8 14	63 58	0° 3445	"	2° 1936
29	?φ	-1 $\frac{1}{2}$	212	32 27'	32 41'	19 00'	28 26'	16 51	27 07	"	0° 5416	0° 6419
30	ι	+21	211	57 50'	63 50	59 52'	47 17	49 27	28 32	1° 7231	1° 0832	2° 0353
31	?τ	- $\frac{3}{2}$ 1	322	32 28	52 05	34 34	"	25 03	41 44	0° 6891	"	1° 2838
32	m	+ $\frac{1}{4}$ 1	144	25 31	50 12	27 20'	"	19 19'	43 54	0° 5170	"	1° 2002
33	n	- $\frac{1}{2}$ 1	122	0 00	47 17	0 00	"	0 00	47 17	0° 0001	"	1° 0832

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
34	p	-21	211	43° 39'	56° 16'	45° 57'	47° 17'	35° 02'	36° 59'	1'0337	1'0832	1'4973
35	β	-31	311	57 50'	63 50'	59 52'	"	49 27'	28 32'	1'7229	"	2'0351
36	a	+32	321	48 04'	72 51'	67 29'	65 13'	45 19'	39 41'	2'4123	2'1664	3'2423
37	γ	+ $\frac{5}{2}$ 2	584	29 06'	68 02'	50 20'	"	26 49'	54 07'	1'2062	"	2'4795
38	μ	- $\frac{1}{2}$ 2	142	0 00'	65 13'	0 00'	"	0 00'	65 13'	0'0001	"	2'1664
39	δ	-32	321	38 29'	70 08'	59 52'	"	35 50'	47 24'	1'7229	"	2'7679
40	ϵ	-42	421	48 04'	72 51'	67 29'	"	45 19'	39 41'	2'4121	"	3'2421
41	ζ	- $\frac{1}{3}$ $\frac{2}{3}$	123	9 03'	36 10'	6 33'	35 50'	5 19'	35 39'	0'1149	0'7221	0'7312
42	η	- $\frac{4}{3}$ $\frac{2}{3}$	423	38 29'	42 42'	29 52'	"	24 58'	32 03'	0'5742	"	0'9226
43	ω	+ $\frac{4}{3}$ $\frac{2}{3}$	423	60 15'	55 30'	51 38'	"	45 41'	24 08'	1'2637	"	1'4554

Humit-Gruppe Klinohumit.

Monoklin.

a = 1'4387	lg a = 015797	lg a ₀ = 012483	lg p ₀ = 987517	a ₀ = 1'3330	p ₀ = 0'7502
c = 1'0793	lg c = 003314	lg b ₀ = 996686	lg q ₀ = 002538	b ₀ = 0'9265	q ₀ = 1'0602
$\mu = \left. \begin{matrix} 79^\circ 12' \\ 180 - \beta \end{matrix} \right\}$	lg h = } 999224 lg sin μ }	lg e = } 927273 lg cos μ }	lg $\frac{p_0}{q_0}$ = 984979	h = 0'9823	e = 0'1874

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
1	c	0	001	90° 00'	10° 48'	10° 48'	0° 00'	10° 48'	0° 00'	0'1907	0	0'1907
2	b	0∞	010	0 00'	90 00'	0 00'	90 00'	0 00'	90 00'	0	∞	∞
3	a	∞0	100	90 00'	"	90 00'	0 00'	90 00'	0 00'	∞	0	"
4	C	$\frac{3}{4}$ ∞	320	46 42'	"	"	90 00'	46 42'	43 17'	1'0614	∞	"
5	D	∞	110	35 17'	"	"	"	35 17'	54 43'	0'7076	"	"
6	E	∞2	120	19 29'	"	"	"	19 29'	70 31'	0'3538	"	"
7	F	∞4	140	10 02'	"	"	"	10 02'	79 58'	0'1769	"	"
8	L	0 $\frac{2}{3}$	023	14 51'	36 40'	10 48'	35 44'	8 48'	35 15'	0'1907	0'7195	0'7444
9	M	01	011	10 01'	47 37'	"	47 11'	7 23'	46 40'	"	1'0793	1'0960
10	N	02	021	5 03'	65 14'	"	65 08'	4 35'	64 45'	"	2'1586	2'1670
11	A	+50	501	90 00'	76 00'	76 00'	0 00'	76 00'	0 00'	4'0094	0	4'0094
12	H	+ $\frac{7}{2}$ 0	702	"	70 45'	70 45'	"	70 45'	"	2'8638	"	2'8638
13	I	+ $\frac{11}{4}$ 0	11'0'4	"	66 25'	66 25'	"	66 25'	"	2'2910	"	2'2910
14	O	+20	201	"	59 48'	59 48'	"	59 48'	"	1'7182	"	1'7182
15	Y	+ $\frac{3}{2}$ 0	302	"	53 11'	53 11'	"	53 11'	"	1'3364	"	1'3364
16	P	+10	101	"	43 40'	43 40'	"	43 40'	"	0'9545	"	0'9545
17	X	+ $\frac{1}{2}$ 0	102	"	29 48'	29 48'	"	29 48'	"	0'5726	"	0'5726

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg} \varrho$
18	R	$-\frac{1}{2}0$	104	—	0°00	0°00	0°00	0°00	0°00	0	0	0
19	W	$-\frac{1}{2}0$	102	90°00	10 49	10 49	"	10 49	"	0·1911	"	0·1911
20	S	—10	101	"	29 48	29 48	"	29 48	"	0·5729	"	0·5729
21	V	$-\frac{1}{2}0$	302	"	43 40	43 40	"	43 40	"	0·9548	"	0·9548
22	U	—20	201	"	53 12	53 12	"	53 12	"	1·3367	"	1·3367
23	Z	$-\frac{1}{2}0$	502	"	59 48	59 48	"	59 48	"	1·7185	"	1·7185
24	d	+2	221	38 31	70 04	59 48	65 08	35 50	47 21	1·7182	2·1586	2·7589
25	e	+1	111	41 29	55 14	43 40	47 11	32 58	37 59	0·9545	1·0793	1·4408
26	h	—1	111	27 58	50 42	29 48	"	21 16	43 07	0·5729	"	1·2219
27	i	—2	221	31 46	68 30	53 12	65 08	29 20	52 17	1·3366	2·1586	2·5389
28	k	+12	121	23 51	67 02	43 40	"	21 52	57 22	0·9545	"	2·3603
29	q	$-\frac{1}{3}0$	323	38 32	42 36	29 48	35 44	24 56	31 58	0·5729	0·7195	0·9198
30	l	—12	121	14 52	65 53	"	65 08	13 32	61 54	"	2·1586	2·2333
31	t	+21	211	57 52	63 46	59 48	47 11	49 25	28 30	1·7182	1·0793	2·0291
32	r	$+\frac{1}{3}0$	322	51 04	59 47	53 11	"	42 15	32 53	1·3363	"	1·7178
33	s	+11	122	27 57	50 42	29 48	"	21 16	43 07	0·5726	"	1·2218
34	x	$-\frac{1}{2}1$	144	0 00	47 11	0 00	"	0 00	47 11	0	"	1·0793
35	n	$-\frac{1}{2}1$	122	10 02	47 37	10 49	"	7 24	46 40	0·1911	"	1·0961
36	t	$-\frac{1}{2}1$	322	41 30	55 14	43 40	"	32 59	37 58	0·9548	"	1·4410
37	p	—21	211	51 05	59 48	53 12	"	42 15	32 53	1·3366	"	1·7180
38	a	+32	321	48 59	73 05	68 03	65 08	46 13	38 53	2·4819	2·1586	3·2893
39	λ	$-\frac{1}{2}2$	184	0 00	65 08	0 00	"	0 00	65 08	0	"	2·1586
40	δ	—32	321	44 13	71 38	64 32	"	41 26	42 51	2·1004	"	3·0118
41	ϵ	—42	421	53 11	74 29	70 53	"	50 29	35 16	2·8844	"	3·6027
42	σ	$+\frac{1}{3}0$	132	19 29	59 47	29 48	58 18	16 45	54 33	0·5726	1·6189	1·7172
43	ζ	$-\frac{1}{3}0$	123	5 04	35 50	3 39	35 44	2 58	35 41	0·0638	0·7195	0·7224

Hureaulit.¹⁾

Monoklin.

a = 2·0889	lg a = 031992	lg a ₀ = 029914	lg p ₀ = 970086	a ₀ = 1·9913	p ₀ = 0·5022
c = 1·0490	lg c = 002078	lg b ₀ = 997922	lg q ₀ = 998162	b ₀ = 0·9533	q ₀ = 0·9586
$\mu = \left. \begin{matrix} 66^\circ 02 \\ 180 - \beta \end{matrix} \right\}$	lg h = 996084	lg e = 960875	lg $\frac{p_0}{q_0}$ = 971924	h = 0·9138	e = 0·4062

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg} \varrho$
1	b	00	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	m	∞	110	27 39	"	"	90 00	27 39	62 21	0·5239	∞	"

¹⁾ Ueber Deutung der Formen des Hureaulit vergl. Bemerkungen am Ende des Buches.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } e$
4	ε	01	011	22° 58	48° 43'	23° 58	46° 22	17° 03	43° 47'	0'4445	1'0490	1'1393
5	β	$+\frac{3}{2}0$	302	90 00	51 45'	51 45'	0 00	51 45'	0 00	1'2689	0	1'2869
6	a	+ 10	101	"	44 50	44 50	"	44 50	"	0'9941	"	0'9941
7	c	- 10	101	90 00	6 00	6 00	"	6 00	"	0'1050	"	0'1050
8	z	+ 21	211	55 48	61 49	57 04	46 22	46 48'	29 42	1'5402	1'0490	1'8664
9	l	+ 32	321	44 56	71 21'	64 28	64 31	42 00'	42 07'	2'0933	2'0980	2'9637
10	k	$+\frac{3}{2}\frac{1}{2}$	312	67 32'	53 56	51 45'	27 40'	48 20	17 59	1'2689	0'5245	1'3730
11	δ	$-\frac{3}{2}\frac{1}{2}$	312	35 55	32 55'	20 48	"	18 35'	26 07	0'3798	"	0'6476
12	p	$-\frac{4}{3}\frac{1}{3}$	413	39 30	24 23	16 05	19 16'	15 13'	18 34'	0'2882	0'3497	0'4532
13	?q	$+\frac{1}{4}\frac{3}{4}$	134	36 29'	44 23	30 12	38 12	24 34'	34 13	0'5818	0'7867	0'9786

Hydrargillit.

Monoklin.

a = 1'7089	lg a = 023272	lg a ₀ = 994996	lg p ₀ = 005004	a ₀ = 0'8912	p ₀ = 1'1221
c = 1'9184	lg c = 028276	lg b ₀ = 971724	lg q ₀ = 028141	b ₀ = 0'5215	q ₀ = 1'9116
$\mu = \left. \begin{matrix} 180 - \beta \end{matrix} \right\} 85^\circ 29$	lg h = } 999865	lg e = } 889625	lg $\frac{p_0}{q_0}$ = 976863	h = 0'9969	e = 0'0787

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } e$
1	c	0	001	90° 00	4° 31	4° 31	0° 00	4° 31	0° 00	0'0790	0	0'0790
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	t	$\frac{2}{3}\infty$	920	69 16	"	"	90 00	69 16	20 44	2'6414	∞	"
5	l	4∞	410	66 56	"	"	"	66 56	23 04	2'3479	"	"
6	?k	$\frac{3}{2}\infty$	310	60 24'	"	"	"	60 24'	29 35'	1'7609	"	"
7	?v	$\frac{2}{3}\infty$	520	55 43'	"	"	"	55 43'	34 16'	1'4674	"	"
8	μ	2∞	210	49 34'	"	"	"	49 34'	40 25'	1'1739	"	"
9	n	$\frac{7}{8}\infty$	870	33 51'	"	"	"	33 51'	56 08'	0'6708	"	"
10	m	∞	110	30 25'	"	"	"	30 25'	59 35'	0'5870	"	"
11	d	- 10	101	90 00	46 18	46 18	0 00	46 18	0 00	1'0465	0	1'0465
12	?o	- 21	211	48 34	70 57'	65 17	62 27'	45 07'	38 43'	2'1722	1'9176	2'8975
13	s	$-\frac{3}{2}\frac{1}{2}$	312	59 13	61 54'	58 09	43 48	49 17	26 25'	1'6094	0'9588	1'8734
14	u	$-\frac{2}{3}\frac{3}{3}$	623	59 31'	68 21'	65 17	51 58	53 14	28 08	2'0745	1'2784	2'5205

Hydrocyanit.

Rhombisch.

$a = 0.7091$	$\lg a = 985071$	$\lg a_o = 975207$	$\lg p_o = 024793$	$a_o = 0.5650$	$p_o = 1.7698$
$c = 1.2550$	$\lg c = 009864$	$\lg b_o = 990136$	$\lg q_o = 009864$	$b_o = 0.7968$	$q_o = 1.2550$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	A	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	u	∞	110	54°39'	90 00	90 00	"	54 39'	45 20'	1.4102	∞	∞
3	k	$0\frac{1}{2}$	012	0 00	32 06'	0 00	32 06'	0 00	32 06'	0	0.6275	0.6275
4	l	01	011	"	51 27'	"	51 27'	"	51 27'	"	1.2550	1.2550
5	d	$\frac{1}{2}0$	102	90 00	41 30'	41 30'	0 00	41 30'	0 00	0.8849	0	0.8849
6	e	10	101	"	60 32'	60 32'	"	60 32'	"	1.7698	"	1.7698
7	m	1	111	54 39'	65 15'	"	51 27'	47 48'	31 41'	"	1.2550	2.1696
8	n	12	121	35 11'	71 58'	"	68 16'	33 13'	51 00'	"	2.5100	3.0711

Hydromagnesit.

Rhombisch.

$a = 1.0379$	$\lg a = 001616$	$\lg a_o = 034852$	$\lg p_o = 965148$	$a_o = 2.2311$	$p_o = 0.4482$
$c = 0.4652$	$\lg c = 966764$	$\lg b_o = 033236$	$\lg q_o = 966764$	$b_o = 2.1496$	$q_o = 0.4652$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	a	∞	100	90°00	90°00	90°00	0°00	90°00	0°00	∞	0	∞
2	m	∞	110	43 56'	"	"	90 00	43 56'	46 04'	0.9635	∞	"
3	y	12	121	25 43'	45 55'	24 08'	42 56'	18 10'	40 20'	0.4482	0.9304	1.0327

Jacobsit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	p	1	111	45°00	54°44	45°00	45°00	35°16	35°16	1.0000	1.0000	1.4142

Jamesonit.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 008645; \quad \frac{p_0}{q_0} = 1.2203; \quad \frac{a}{b} = 0.8195$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	0∞	010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
3	m	∞	110	50 40	”	90 00	”	50 40	39 20	1.2203	”	”

Jarosit.

Hexagonal. Rhomboedrisch-hemiedrisch

$$c = 1.250 \quad \lg c = 009691 \quad \lg a_0 = 014165 \quad \lg p_0 = 992082 \quad a_0 = 1.3856 \quad p_0 = 0.8333 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a'	+ $\frac{c}{2}$	6.6.12.5	30°00	60 00	40 53'	56 18'	25 39'	48 35'	0.8660	1.5000	1.7320
3	p'	+ 1	1121	”	55 17	35 49	51 20'	24 16	45 23	0.7217	1.2500	1.4434
4	b'	+ $\frac{c}{7}$	6.6.12.7	”	51 03	31 44'	46 58'	22 53	42 20'	0.6186	1.0714	1.2372
5	φ'	- 1	2241	”	70 53'	55 17	68 12	28 11'	54 55	1.1443	2.5000	2.8867

Idokras.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.5376 \quad \lg c = 973046 \quad \lg a_0 = 026954 \quad a_0 = 1.860$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	0∞	010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
3	m	∞	110	45 00	”	90 00	”	45 00	45 00	1.0000	”	”
4	φ	$\infty \frac{5}{3}$	350	30 58	”	”	”	30 58	59 02	0.6000	”	”
5	ψ	$\infty \frac{7}{4}$	470	29 44'	”	”	”	29 44'	60 15'	0.5714	”	”
6	f	$\infty 2$	120	26 34	”	”	”	26 34	63 26	0.5000	”	”
7	h	$\infty 3$	130	18 26	”	”	”	18 26	71 34	0.3333	”	”
8	v	$0 \frac{1}{2}$	012	0 00	15 02'	0 00	15 02'	0 00	15 02'	o	0.2688	0.2688
9	A	$0 \frac{2}{3}$	023	”	19 43'	”	19 43'	”	19 43'	”	0.3584	0.3584

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
10	o	01	011	0°00	28°15'	0°00	28°15'	0°00	28°15'	0	0'5376	0'5376
11	B	0 $\frac{3}{2}$	032	"	38 53	"	38 53	"	38 53	"	0'8064	0'8064
12	u	02	021	"	47 04'	"	47 04'	"	47 04'	"	1'0752	1'0752
13	π	03	031	"	58 12	"	58 12	"	58 12	"	1'6128	1'6128
14	α	$\frac{1}{20}$	1'1'20	45 00	2 10'	1 32'	1 32'	1 32'	1 32'	0'0269	0'0269	0'0380
15	β	$\frac{1}{10}$	1'1'10	"	4 21	3 04'	3 04'	3 04'	3 04'	0'0538	0'0538	0'0760
16	χ	$\frac{1}{9}$	1'1'9	"	4 49'	3 25	3 25	3 24'	3 24'	0'0597	0'0597	0'0844
17	γ	$\frac{1}{8}$	118	"	5 25'	3 50'	3 50'	3 50	3 50	0'0672	0'0672	0'0950
18	δ	$\frac{1}{7}$	117	"	6 12	4 23'	4 23'	4 22'	4 22'	0'0768	0'0768	0'1086
19	ε	$\frac{1}{6}$	116	"	7 13'	5 07	5 07	5 06	5 06	0'0896	0'0896	0'1267
20	ζ	$\frac{1}{5}$	115	"	8 38'	6 08	6 08	6 06	6 06	0'1075	0'1075	0'1521
21	η	$\frac{1}{4}$	114	"	10 45'	7 39'	7 39'	7 35'	7 35'	0'1344	0'1344	0'1901
22	θ	$\frac{1}{3}$	113	"	14 13	10 09'	10 09'	10 00	10 00	0'1792	0'1792	0'2534
23	?J	$\frac{1}{3}$	5'5'13	"	16 18	11 41	11 41	11 26'	11 26'	0'2068	0'2068	0'2924
24	ι	$\frac{1}{2}$	112	"	20 49	15 02'	15 02'	14 33	14 33	0'2688	0'2688	0'3801
25	κ	$\frac{3}{5}$	335	"	24 31'	17 52'	17 52'	17 04	17 04	0'3225	0'3225	0'4562
26	λ	$\frac{4}{5}$	445	"	31 18'	23 16'	23 16'	21 33'	21 33'	0'4301	0'4301	0'6082
27	L	$\frac{7}{8}$	778	"	33 38	25 11'	25 11'	23 03'	23 03'	0'4704	0'4704	0'6652
28	p	1	111	"	37 14'	28 15'	28 15'	25 20'	25 20'	0'5376	0'5376	0'7603
29	μ	$\frac{8}{5}$	885	"	50 34'	40 42	40 42	33 06'	33 06'	0'8616	0'8616	1'2164
30	b	2	221	"	56 40	47 04'	47 04'	36 12'	36 12'	1'0752	1'0752	1'5205
31	t	3	331	"	66 19'	58 12	58 12	40 21'	40 21'	1'6128	1'6128	2'2808
32	N	4	441	"	71 48	65 03'	65 03'	42 12	42 12	2'1504	2'1504	3'0411
33	O	5	551	"	75 15'	69 35'	69 35'	43 08'	43 08'	2'6880	2'6880	3'8014
34	x	$\frac{1}{3}$	133	18 26	29 32'	10 09'	28 15'	8 58	27 53'	0'1792	0'5376	0'5667
35	ω	$\frac{2}{7}$	377	23 12	30 19'	12 58'	"	11 28'	27 39	0'2304	"	0'5849
36	n	$\frac{1}{2}$	122	26 34	31 00'	15 02'	"	13 19	27 26	0'2688	"	0'6011
37	P	$\frac{4}{7}$	477	29 44'	31 46	17 04'	"	15 08'	27 12	0'3072	"	0'6192
38	z	$\frac{12}{1}$	121	26 34	50 14'	28 15'	47 04'	20 06'	43 26'	0'5376	1'0752	1'2021
39	q	$1\frac{8}{3}$	383	20 33'	56 51	"	55 06	17 06	51 37'	"	1'4369	1'5310
40	s	13	131	18 26	59 32	"	58 12	15 49	54 51'	"	1'6128	1'7000
41	y	14	141	14 02	65 43	"	65 03'	12 46'	62 10	"	2'1504	2'2166
42	v	15	151	11 18'	69 57'	"	69 35'	10 37	67 06	"	2'6880	2'7412
43	w	17	171	8 08	75 15'	"	75 07	7 51'	73 13	"	3'7632	3'8014
44	d	24	241	26 34	67 25	47 04'	65 03'	24 23'	55 40'	1'0752	2'1504	2'4042
45	i	$\frac{1}{2}$	132	18 26	40 22	15 02'	38 53	11 49	37 54'	0'2688	0'8064	0'8500
46	X	$\frac{5}{2}$	152	11 18'	53 53	"	53 21	9 07	52 23	"	1'3440	1'3706
47	ϱ	$\frac{1}{9}$	139	18 26	10 42	3 25	10 09'	3 22	10 08'	0'0597	0'1792	0'1889
48	σ	$\frac{1}{5}$	135	"	18 46'	6 08	17 52'	5 50'	17 47	0'1075	0'3225	0'3400
49	τ	$\frac{2}{3}$	269	"	20 42	6 49	19 43	6 25	19 35'	0'1195	0'3584	0'3778
50	l	$\frac{2}{3}$	243	26 34	38 42'	19 43	35 38	16 14'	34 00'	0'3584	0'7162	0'8014
51	?e	$\frac{3}{5}$	351	30 58	72 18'	58 12	69 35'	29 21	54 46'	1'6128	2'6880	3'1347
52	?r	46	461	33 41'	75 32	65 03'	72 46'	32 29'	53 40'	2'1504	3'2256	3'8767
53	?g	$\frac{5}{2}$	5'20'2	14 02	79 46'	53 21	79 28	13 48'	72 41'	1'3440	5'3760	5'5415
54	?F	7'13	7'13'1	28 18	82 49	75 07	81 51'	28 03'	60 52'	3'7632	6'9887	7'9374

Jeremejewit.

Hexagonal.

$$c = 1.1840 \quad | \lg c = 0.07335 \quad | \lg a_0 = 0.16521 \quad | \lg p_0 = 9.89726 \quad | a_0 = 1.4629 \quad | p_0 = 0.7893 \quad (G_T)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	a	∞	1120	30°00'	90°00'	90°00'	90°00'	30°00'	60°00'	0.5773	∞	∞
2	e	2∞	2130	19 06'	"	"	"	19 06'	70 53'	0.3464	"	"
3	n	$\frac{1}{4}0$	1014	0 00	11 10	0 00	11 10	0 00	11 10	0	0.1973	0.1973
4	f	$\frac{1}{3}0$	1013	"	14 44'	"	14 44'	"	14 44'	"	0.2631	0.2631
5	d	10	1011	"	38 17	"	38 17	"	38 17	"	0.7893	0.7893
6	q	$\frac{2}{3}0$	7075	"	47 51'	"	47 51'	"	47 51'	"	1.1050	1.1050
7	g	$\frac{4}{3}\frac{1}{3}$	4153	10 53'	50 19'	12 50	49 49	8 22	49 06'	0.2278	1.1839	1.2057

Inesit.

Triklin.

$p_0 = 1.3562$	$\lambda = 83^\circ 15'$	$a = 0.9753$	$\alpha = 92^\circ 18'$	$x_0 = 0.6763$	$d = 0.6865$
$q_0 = 0.9692$	$\mu = 46^\circ 42'$	$b = 1$	$\beta = 132^\circ 56'$	$y_0 = 0.1175$	$\delta = 80^\circ 08'$
$r_0 = 1$	$\nu = 82^\circ 35'$	$c = 1.3208$	$\gamma = 93^\circ 51'$	$h = 0.7271$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	50°08'	43°21'	42°55'	9°11'	42°33'	6°45'	0.9302	0.1616	0.9441
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	82 35	"	90 00	"	82 35	7 25	7.8622	"	"
4	m	$\infty\infty$	110	120 34	"	"	90 00	59 26	30 34	1.6934	"	"
5	d	01	011	141 32'	56 14	42 55'	49 30'	31 08	40 37	0.9302	1.1712	1.4956
6	g	20	201	82 05'	77 55'	77 48'	32 44'	75 36	7 44	4.6292	0.6431	4.6735
7	l	10	101	81 46'	70 24	70 13	21 55	68 48	7 45'	2.7798	0.4024	2.8088
8	e	10	101	94 55'	42 42	42 35'	4 31'	42 30'	3 20	0.9194	0.0791	0.9228
9	o	$\frac{5}{2}\frac{3}{2}$	532	75 28	75 19	74 51	43 45	69 27'	14 02'	3.6939	0.9573	3.8159
10	pi	$1\frac{4}{7}$	747	53 29	48 50'	42 36	34 14'	37 14	26 37	0.9194	0.6806	1.1439

Jodobromit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ 0\infty \end{array} \right.$	001 010	— 0°00'	0°00' 90 00	0°00' "	0°00' 90 00	0°00' "	0°00' 90 00	0 "	0 ∞	0 ∞
2	p	. 1	111	45 00	54 44	45 00	45 00	35 16	35 16	1.0000	1.0000	1.4142

Jodsilber.

Hexagonal-Hemimorph.

$$c = 1.4196 \quad \lg c = 0.15217 \quad \lg a_0 = 0.08639 \quad \lg p_0 = 9.97608 \quad a_0 = 1.2201 \quad p_0 = 0.9464 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞	1120	30 00	"	90 00	"	30°00	60 00	0.5773	"	"
4	μ	$\frac{1}{2}0$	1012	0 00	25 19'	0 00	25 19'	0 00	25 19'	0	0.4732	0.4732
5	? ν	$\frac{2}{3}0$	2023	"	32 15	"	32 15	"	32 15	"	0.6310	0.6310
6	e	$\frac{3}{4}0$	3034	"	35 22	"	35 22	"	35 22	"	0.7098	0.7098
7	? π	$\frac{4}{5}0$	4045	"	37 08	"	37 08	"	37 08	"	0.7571	0.7571
8	o	10	1011	"	43 25'	"	43 25'	"	43 25'	"	0.9464	0.9464
9	h	$\frac{3}{2}0$	3032	"	54 50'	"	54 50'	"	54 50'	"	1.4196	1.4196
10	i	20	2021	"	62 09	"	62 09	"	62 09	"	1.8928	1.8928
11	k	30	3031	"	70 36	"	70 36	"	70 36	"	2.8392	2.8392
12	u	40	4041	"	75 12	"	75 12	"	75 12	"	3.7856	3.7856

Johannit.

Monoklin.

a = 2.04	lg a = 0.30963	lg a ₀ = 0.14528	lg p ₀ = 9.85472	a ₀ = 1.397	p ₀ = 0.716
c = 1.46	lg c = 0.16435	lg b ₀ = 9.83565	lg q ₀ = 0.16300	b ₀ = 0.685	q ₀ = 1.456
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 85^\circ 29$	lg h = $\left. \begin{matrix} \\ \mu \end{matrix} \right\} 9.99865$	lg e = $\left. \begin{matrix} \\ \cos \mu \end{matrix} \right\} 8.89625$	lg $\frac{p_0}{q_0}$ = 9.69172	h = 0.9969	e = 0.0787

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	b	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	c	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	m	01	011	3 05'	55 38	4 31	55 35'	2 33'	55 30'	0.0790	1.4600	1.4621
4	e	+10	101	90 00	38 34	38 34	0 00	38 34	0 00	0.7971	0	0.7971

Johnstrupit-Mosandrit.

Monoklin.

a = 1'6229	lga = 021029	lga ₀ = 007694	lgp ₀ = 992306	a ₀ = 1'1938	p ₀ = 0'8376
c = 1'3594	lgc = 013335	lgb ₀ = 986665	lgq ₀ = 013272	b ₀ = 0'7356	q ₀ = 1'3574
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 86^\circ 55'$	$lgh = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 999937$	$lgc = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 873069$	$lg \frac{p_0}{q_0} = 979034$	h = 0'9985	e = 0'0538

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	b	0∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	t	7∞	710	76 58	"	"	90 00	76 58	13 02	4'3196	∞	"
4	k	4∞	410	67 57	"	"	"	67 57	22 03	2'4683	"	"
5	n	3∞	310	61 37'	"	"	"	61 37'	28 22'	1'8512	"	"
6	l	$\frac{5}{2}\infty$	520	57 03	"	"	"	57 03	32 57	1'5427	"	"
7	f	2∞	210	50 59	"	"	"	50 59	39 01	1'2341	"	"
8	m	∞	110	31 40'	"	"	"	31 40'	58 19'	0'6171	"	"
9	z	∞2	120	17 09	"	"	"	17 09	72 51	0'3085	"	"
10	h	∞6	160	5 52'	"	"	"	5 52'	84 07'	0'1028	"	"
11	e	$\frac{1}{3}0$	301	90 00	68 44'	68 44'	0 00	68 44'	0 00	2'5703	0	2'5703
12	x	$\frac{1}{2}0$	201	"	59 59'	59 59'	"	59 59'	"	1'7315	"	1'7315
13	d	$\frac{1}{4}0$	101	"	41 45'	41 45'	"	41 45'	"	0'8927	"	0'8927
14	δ	—10	101	90 00	38 08	38 08	"	38 08	"	0'7849	"	0'7849
15	ξ	—20	201	"	58 22'	58 22'	"	58 22'	"	1'6237	"	1'6237
16	ε	—30	301	"	67 54	67 54	"	67 54	"	2'4626	"	2'4626

Jordanit.

Rhombisch.

a = 0'5375	lga = 973038	lga ₀ = 972374	lgp ₀ = 027626	a ₀ = 0'5293	p ₀ = 1'8891
c = 1'0154	lgc = 000664	lgb ₀ = 999336	lgq ₀ = 000664	b ₀ = 0'9848	q ₀ = 1'0154

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	∞	110	61°44'	90 00	90 00	90 00	61 44'	28 15'	1'8605	∞	∞
3	n	∞3	130	31 48'	"	"	"	31 48'	58 11'	0'6201	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tge
4	d	$0\frac{4}{9}$	049	0° 00	24° 17'	0° 00	24° 17'	0° 00	24° 17'	0	0'4513	0'4513
5	e	$0\frac{1}{2}$	012	"	26 55	"	26 55	"	26 55	"	0'5077	0'5077
6	f	$0\frac{2}{3}$	047	"	30 07'	"	30 07'	"	30 07'	"	0'5802	0'5802
7	g	$0\frac{2}{3}$	023	"	34 05'	"	34 05'	"	34 05'	"	0'6769	0'6769
8	h	$0\frac{4}{5}$	045	"	39 05'	"	39 05'	"	39 05'	"	0'8123	0'8123
9	i	01	011	"	45 26'	"	45 26'	"	45 26'	"	1'0154	1'0154
10	k	$0\frac{8}{7}$	087	"	49 15	"	49 15	"	49 15	"	1'1604	1'1604
11	l	$0\frac{4}{3}$	043	"	53 33	"	53 33	"	53 33	"	1'3539	1'3539
12	p	02	021	"	63 47	"	63 47	"	63 47	"	2'0308	2'0308
13	q	04	041	"	76 10	"	76 10	"	76 10	"	4'0616	4'0616
14	u	$\frac{2}{3}0$	203	90 00	51 33	51 33	0 00	51 33	0 00	1'2594	0	1'2594
15	v	$\frac{4}{5}0$	405	"	56 30'	56 30'	"	56 30'	"	1'5113	"	1'5113
16	w	10	101	"	62 06'	62 06'	"	62 06'	"	1'8891	"	1'8891
17	x	$\frac{4}{3}0$	403	"	68 21	68 21	"	68 21	"	2'5188	"	2'5188
18	y	20	201	"	75 10'	75 10'	"	75 10'	"	3'7782	"	3'7782
19	α	$\frac{2}{9}$	229	61 44'	25 29	22 46'	12 43	22 16	11 45	0'4198	0'2256	0'4766
20	β	$\frac{1}{4}$	114	"	28 12	25 17	14 14'	24 36	12 55'	0'4723	0'2538	0'5362
21	γ	$\frac{2}{7}$	227	"	31 30	28 21'	16 10'	27 24	14 19'	0'5397	0'2901	0'6128
22	δ	$\frac{1}{3}$	113	"	35 33'	32 12	18 42	30 49	15 59	0'6297	0'3385	0'7149
23	ε	$\frac{2}{5}$	225	"	40 37'	37 04'	22 06'	35 00	17 57'	0'7556'	0'4061	0'8579
24	ζ	$\frac{1}{2}$	112	"	47 00	43 22	26 55	40 06'	20 15'	0'9445	0'5077	1'0724
25	η	$\frac{4}{7}$	447	"	50 47	47 11'	30 07'	43 02	21 31	1'0795	0'5802	1'2255
26	θ	$\frac{2}{3}$	223	"	55 02	51 33	34 05'	46 12	22 49'	1'2594	0'6769	1'4298
27	ι	$\frac{4}{5}$	445	"	59 46	56 30'	39 05'	49 33	24 08'	1'5113	0'8123	1'7158
28	κ	1	111	"	65 00	62 06'	45 26'	52 58	25 24'	1'8891	1'0153	2'1447
29	λ	2	221	"	76 52'	75 10'	63 47	59 04'	27 27'	3'7782	2'0308	4'2894
30	μ	3	331	"	81 10	79 59'	71 49'	60 30	27 53'	5'6674	3'0462	6'4341
31	ν	8	881	"	86 40	86 13	82 59	61 33'	28 12'	15'1131	8'1232	17'158
32	A	$\frac{2}{7}$	267	31 48'	45 41	28 21'	41 02	22 09	37 27'	0'5397'	0'8703'	1'0241
33	B	$\frac{1}{3}$	133	"	50 04'	32 12	45 26'	23 50'	40 40	0'6297	1'0153	1'1948
34	C	$\frac{1}{2}$	132	"	60 50'	43 22	56 43	27 24	47 55	0'9445'	1'5231	1'7922
35	D	$\frac{2}{3}$	263	"	67 17'	51 33	63 47	29 05'	51 37'	1'2594	2'0308	2'3896
36	E	13	131	"	74 24'	62 06'	71 49'	30 30'	54 56'	1'8891	3'0462	3'5844
37	F	26	261	"	82 03'	75 10'	80 40'	31 28	57 19	3'7782'	6'0924	7'1688

Iridium.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
		∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
2	a	0 $\frac{1}{3}$	013	"	18 26	"	18 26	"	18 26	"	0'3333	0'3333
		03	031	"	71 34	"	71 34	"	71 34	"	3'0000	3'0000
		∞3	130	18 26	90 00	90 00	90 00	18 26	"	0'3333	∞	∞
3	i	0 $\frac{2}{3}$	034	0 00	36 52	0 00	36 52	0 00	36 52	0	0'7500	0'7500
		0 $\frac{4}{3}$	043	"	53 08	"	53 08	"	53 08	"	1.3333	1'3333
		∞ $\frac{4}{3}$	340	36 52	90 00	90 00	90 00	36 52	"	0'7500	∞	∞
4	d	01	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
		∞	110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
5	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1'0000	1'4142

Kainit.

Monoklin.

a = 1'2186	lg a = 008586	lg a ₀ = 031774	lg p ₀ = 968226	a ₀ = 2'0784	p ₀ = 0'4811
c = 0'5863	lg c = 976812	lg b ₀ = 023188	lg q ₀ = 976653	b ₀ = 1'7056	q ₀ = 0'5842
$\mu = \begin{cases} 180 \\ \beta \end{cases} 85^\circ 06$	$\lg h = \begin{cases} 999841 \\ \lg \sin \mu \end{cases}$	$\lg e = \begin{cases} 893154 \\ \lg \cos \mu \end{cases}$	$\lg \frac{p_0}{q_0} = 991573$	h = 0'9963	e = 0'0854

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90° 00	4° 54	4° 54	0° 00	4° 54	0° 00	0'0857	0	0'0857
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	l	3∞	310	67 58	"	"	90 00	67 58	22 02	2'4765	∞	"
5	e	2∞	210	58 44'	"	"	"	58 44'	31 15'	1'6472	"	"
6	p	∞	110	39 28'	"	"	"	39 28'	50 31'	0'8236	"	"
7	d	02	021	4 11	49 37	4 54	49 32'	3 11	49 26'	0'0857	1'1726	1'1757
8	n	+40	401	90 00	63 38	63 38	0 00	63 38	0 00	2'0171	0	2'0171
9	r	+20	201	"	46 26	46 26	"	46 26	"	1'0514	"	1'0514
10	t	+10	101	"	29 37'	29 37'	"	29 37'	"	0'5818	"	0'5818
11	q	+1	111	44 07	39 14'	"	30 23	26 07'	27 00'	0'5685	0'5863	0'8167
12	w	+31	311	69 05	58 40	56 54'	"	52 56	17 45	1'5343	"	1'6425
13	s	-1	111	34 07	35 18	21 39'	"	18 55	28 35	0'3971	"	0'7081
14	u	+ $\frac{3}{2}$	334	46 47	32 42	25 04'	23 44	23 11	21 43	0'4679	0'4397	0'6421
15	v	+2	221	41 53	57 35	46 26	49 32'	34 18	38 56'	1'0514	1'1726	1'5750
16	z	- $\frac{2}{3}$	223	31 08'	24 32'	13 17	21 21	12 24'	20 49'	0'2361	0'3908	0'4567
17	x	+ $\frac{1}{3}$	131	17 35	61 35	29 37'	60 23	15 42	56 49	0'5685	1'7589	1'8485
18	y	-13	131	12 43'	60 59'	21 39'	"	11 06'	58 33	0'3971	"	1'8031

Kalisalpeter.

Rhombisch.

$a = 0.5910$	$\lg a = 977159$	$\lg a_0 = 992587$	$\lg p_0 = 007413$	$a_0 = 0.8430$	$p_0 = 1.1861$
$c = 0.7010$	$\lg c = 984572$	$\lg b_0 = 015428$	$\lg q_0 = 984572$	$b_0 = 1.4265$	$q_0 = 0.7010$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y	d' =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0 ∞	010	0°00	90 00	0°00	90 00	0°00	90 00	0	∞	∞
3	b	$\infty 0$	100	90 00	0°00	90 00	0 00	90 00	0 00	∞	0	0
4	m	∞	110	59 25	0°00	90 00	59 25	30 35	30 35	1.6920	∞	0
5	x	0 $\frac{1}{2}$	012	0 00	19 19	0 00	19 19	0 00	19 19	0	0.3505	0.3505
6	k	01	011	0°00	35 02	0°00	35 02	0°00	35 02	0	0.7010	0.7010
7	i	02	021	0°00	54 30	0°00	54 30	0°00	54 30	0	1.4020	1.4020
8	p	1	111	59 25	54 01	49 52	35 02	44 10	24 19	1.1861	0.7010	1.3778

Kalkuranit.

Monoklin.

$a = 0.3463$	$\lg a = 953945$	$\lg a_0 = 999229$	$\lg p_0 = 000771$	$a_0 = 0.9824$	$p_0 = 1.0179$
$c = 0.3525$	$\lg c = 954716$	$\lg b_0 = 045284$	$\lg q_0 = 954714$	$b_0 = 2.8369$	$q_0 = 0.3525$
$\mu = \left. \begin{matrix} 180 \\ \beta \end{matrix} \right\} 89^\circ 30'$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 999998$	$\lg c = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 794084$	$\lg \frac{p_0}{q_0} = 046057$	$h = 0.9999$	$e = 0.0087$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	0°30	0°30	0°00	0°30	0°00	0.0087	0	0.0087
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	90 00	0°00	90 00	0 00	90 00	0 00	∞	0	0
4	m	∞	110	70 54	0°00	90 00	70 54	19 06	19 06	2.8878	∞	0
5	q	01	011	1 25	19 25	0 30	19 25	0 28	19 25	0.0087	0.3525	0.3526
6	d	+10	101	90 00	45 45	45 45	0 00	45 45	0 00	1.0266	0	1.0266
7	p	+12	121	55 31	51 14	45 55	35 11	40 00	26 11	0	0.7050	1.2454
8	π	-12	121	55 04	50 55	45 16	0°00	39 31	26 23	1.0092	0	1.2310

Kalomel.

Tetragonal.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1.7229$	$\lg c = 0.23626$	$\lg a_0 = 9.76374$	$a_0 = 0.5804$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	A	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
4	ξ	$\infty \frac{2}{3}$	290	12 31'	"	"	"	12 31'	77 28'	0'2222	"	"
5	g	$\infty \frac{6}{7}$	160	9 27'	"	"	"	9 27'	80 32'	0'1667	"	"
6	μ	$\infty \frac{7}{8}$	170	8 08	"	"	"	8 08	81 52	0'1429	"	"
7	q	$0 \frac{1}{5}$	015	0 00	19 01	0 00	19 01	0 00	19 01	0	0'3445	0'3445
8	γ	$0 \frac{1}{4}$	014	"	23 18	"	23 18	"	23 18	"	0'4307	0'4307
9	z	$0 \frac{1}{3}$	013	"	29 52'	"	29 52'	"	29 52'	"	0'5743	0'5743
10	t	$0 \frac{1}{2}$	012	"	40 40'	"	40 40'	"	40 40'	"	0'8594	0'8594
11	e	01	011	"	59 52	"	59 52	"	59 52	"	1'7229	1'7229
12	β	$0 \frac{5}{4}$	054	"	65 05'	"	65 05'	"	65 05'	"	2'1536	2'1536
13	s	02	021	"	73 49	"	73 49	"	73 49	"	3'4457	3'4457
14	k	04	041	"	81 44'	"	81 44'	"	81 44'	"	6'8915	6'8915
15	ζ	$\frac{1}{9}$	119	45 00	15 09	10 50'	10 50'	10 39	10 39	0'1914	0'1914	0'2707
16	h	$\frac{1}{4}$	114	"	31 21	23 18	23 18	21 35	21 35	0'4307	0'4307	0'6091
17	a	$\frac{1}{3}$	113	"	39 05	29 52	29 52	26 29'	26 29'	0'5743	0'5743	0'8122
18	i	$\frac{1}{2}$	112	"	50 37	40 44'	40 44'	33 08	33 08	0'8614	0'8614	1'2182
19	y	$\frac{5}{8}$	559	"	53 32'	43 44'	43 44'	34 39'	34 39'	0'9572	0'9572	1'3536
20	x	$\frac{5}{8}$	558	"	56 42'	47 07	47 07	36 14	36 14	1'0768	1'0768	1'5228
21	r	1	111	"	67 41	59 52	59 52	40 51'	40 51'	1'7229	1'7229	2'4365
22	o	2	221	"	78 24	73 49	73 49	43 50'	43 50'	3'4457	3'4457	4'8730
23	β	$\frac{5}{2}$	552	"	80 40'	76 55'	76 55'	44 15	44 15	4'3072	4'3072	6'0913
24	p	3	331	"	82 12'	79 03	79 03	44 28'	44 28'	5'1686	5'1686	7'3095
25	?B	$\frac{1}{3}$	133	18 26	61 09'	59 52	59 52	16 05	56 12'	0'5743	1.7229	1'8161
26	ψ	13	131	"	79 36	"	79 03	18 07'	68 55'	1'7229	5'1686	5'4482
27	π	$\frac{1}{4}$	124	26 34	43 55'	23 18	40 44'	18 04'	38 21	0'4307	0'8614	0'9631
28	λ	$\frac{1}{2}$	5'14'10	19 39	68 40'	40 44'	67 29	18 15'	61 18'	0'8614	2'4120	2'5631
29	n	$\frac{1}{2}$	132	18 26	69 50'	"	68 51	17 16	62 57	"	2'5843	2'7241
30	D	$\frac{4}{9}$	4'18'9	12 31'	74 11	37 26'	73 49	12 03	69 55'	0'7657	3'4453	3'5299
31	φ	$\frac{1}{2}$	142	14 02	74 16'	40 44'	"	13 30	69 02'	0'8614	3'4458	3'5519
32	v	$\frac{1}{3}$	153	11 18'	71 08'	29 52	70 48	10 42	68 07'	0'5743	2'8716	2'9283
33	f	$\frac{1}{4}$	164	9 27'	69 06'	23 18	68 51	8 50	67 09	0'4307	2'5843	2'6200
34	ϱ	$\frac{1}{5}$	135	18 26	47 27'	19 01	45 57	13 28'	44 20'	0'3446	1'0337	1'0896
35	σ	$\frac{1}{10}$	1'8'10	7 07'	54 15	9 46'	54 02'	5 46'	53 38'	0'1723	1'3783	1'3891

Kaolin.

Monoklin.

$a = 0.5748$	$lga = 975952$	$lga_0 = 955549$	$lgp_0 = 044451$	$a_0 = 0.3593$	$p_0 = 2.7830$
$c = 1.5997$	$lgc = 020403$	$lgb_0 = 979597$	$lgq_0 = 020095$	$b_0 = 0.6251$	$q_0 = 1.5883$
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 83^\circ 11'$	$lgh = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 999692$	$lgc = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 907442$	$lg \frac{p_0}{q_0} = 024356$	$h = 0.9929$	$e = 0.1187$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x'}{(Prismen)} (x : y)$	y'	$d' = tge$
1	c	0	001	90° 00	6° 49	6° 49	0° 00	6° 49	0° 00	0.1195	0	0.1195
2	b	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	m	∞	110	60 17	"	90 00	"	60 17	29 43	1.7521	"	"
4	n	-1	111	59 12	72 15	69 34	57 59'	54 53'	29 11'	2.6832	1.5997	3.1239

Karyocerit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 1.1845$	$lgc = 007353$	$lga_0 = 016503$	$lgp_0 = 989744$	$a_0 = 1.4623$	$p_0 = 0.7897$	(G_1)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{(Prismen)} (x : y)$	y	$d = tge$
1	c	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	q	$-\frac{1}{4}$	1124	30° 00	18 53	9 29	16 30	9 18'	16 16'	0.1710	0.2962	0.3420
3	q	$-\frac{1}{2}$	1122	"	34 22'	18 53	30 38'	16 24	29 16	0.3420	0.5923	0.6840

Katapleit.

Hexagonal-holoedrisch.

$c = 2.3605$	$lgc = 037300$	$lga_0 = 986556$	$lgp_0 = 019691$	$a_0 = 0.7338$	$p_0 = 1.5737$	(G_1)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{(Prismen)} (x : y)$	y	$d = tge$
1	c	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	∞0	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	y	$\frac{1}{3}0$	1013	"	27 41	"	27 41	"	27 41	"	0.5245	0.5245
4	o	$\frac{1}{2}0$	1012	"	38 12	"	38 12	"	38 12	"	0.7868	0.7868
5	p	10	1011	"	57 34	"	57 34	"	57 34	"	1.5737	1.5737
6	x	20	2021	"	72 22'	"	72 22'	"	72 22'	"	3.1473	3.1473

Kentrolith.

Rhombisch.

a = 0.6328	lg a = 980127	lg a _o = 984761	lg p _o = 015239	a _o = 0.7041	p _o = 1.4203
c = 0.8988	lg c = 995366	lg b _o = 004634	lg q _o = 995366	b _o = 1.1126	q _o = 0.8988

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ _o	η _o	ξ	η	x (Prismen) (x : y)	y	d = tge
1	b	∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	m	∞	110	57 40'	"	"	90 00	57 40'	32 19'	1.5803	∞	"
4	o	1	111	"	59 15	54 51	41 57	46 34	27 21'	1.4203	0.8988	1.6808
5	p	2	221	"	73 26	70 36'	60 55	54 05'	30 50'	2.8407	1.7976	3.3616

Kieselzinkerz.

Rhombisch.

a = 0.7835	lg a = 989404	lg a _o = 021479	lg p _o = 978521	a _o = 1.6398	p _o = 0.6098
c = 0.4778	lg c = 967925	lg b _o = 032075	lg q _o = 967925	b _o = 2.0929	q _o = 0.4778

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ _o	η _o	ξ	η	x (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	∞∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	51 55	"	"	90 00	51 55	38 05	1.2763	∞	"
5	p	∞ _{2/3}	230	40 23'	"	"	"	40 23'	49 36'	0.8509	"	"
6	n	∞ ₂	120	32 32'	"	"	"	32 32'	57 27'	0.6381	"	"
7	o	∞ ₃	130	23 03	"	"	"	23 03	66 57	0.4254	"	"
8	?A	∞ _{3/5}	290	15 50	"	"	"	15 50	74 10	0.2836	"	"
9	q	∞ ₅	150	14 19	"	"	"	14 19	75 41	0.2552	"	"
10	?δ	0 _{1/8}	018	0 00	3 25	0 00	3 25	0 00	3 25	0	0.0597	0.0597
11	ε	0 _{3/14}	013	"	9 03	"	9 03	"	9 03	"	0.1592	0.1592
12	d	0 _{1/14}	012	"	13 26	"	13 26	"	13 26	"	0.2389	0.2389
13	e	01	011	"	25 32'	"	25 32'	"	25 32'	"	0.4778	0.4778
14	κ	0 _{1/14}	043	"	32 30	"	32 30	"	32 30	"	0.6370	0.6370
15	f	0 _{3/14}	032	"	35 38	"	35 38	"	35 38	"	0.7167	0.7167
16	g	0 _{3/10}	053	"	38 32	"	38 32	"	38 32	"	0.7963	0.7963
17	?B	0 _{4/10}	074	"	39 54	"	39 54	"	39 54	"	0.8361	0.8361
18	h	02	021	"	43 42	"	43 42	"	43 42	"	0.9556	0.9556

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tge
19	i	03	031	0°00	55°06	0°00	55°06	0°00	55°06	0	1'4334	1'4334
20	k	05	051	"	67 17	"	67 17	"	67 17	"	2'3890	2'3890
21	l	07	071	"	73 21	"	73 21	"	73 21	"	3'3446	3'3446
22	η	$\frac{1}{6}0$	106	90 00	5 48	5 48	0 00	5 48	0 00	0'1016	0	0'1016
23	ν	$\frac{1}{5}0$	105	"	6 57	6 57	"	6 57	"	0'1219	"	0'1219
24	r	$\frac{1}{3}0$	103	"	11 29	11 29	"	11 29	"	0'2032	"	0'2032
25	χ	$\frac{2}{5}0$	205	"	13 42	13 42	"	13 42	"	0'2439	"	0'2439
26	θ	$\frac{1}{2}0$	102	"	16 57	16 57	"	16 57	"	0'3049	"	0'3049
27	s	10	101	"	31 22	31 22	"	31 22	"	0'6098	"	0'6098
28	ι	$\frac{4}{5}0$	403	"	39 07	39 07	"	39 07	"	0'8131	"	0'8131
29	μ	20	201	"	50 39	50 39	"	50 39	"	1'2196	"	1'2196
30	t	30	301	"	61 20	61 20	"	61 20	"	1'8295	"	1'8295
31	γ	$\frac{1}{2}$	112	51 55	21 10	16 57	13 26	16 31	12 52	0'3049	0'2389	0'3874
32	ζ	$\frac{3}{4}$	334	"	30 09	24 34	19 43	23 17	18 03	0'4573	0'3583	0'5810
33	π	1	111	"	37 46	31 22	25 32	28 49	22 11	0'6098	0'4778	0'7747
34	x	$\frac{3}{2}$	332	"	49 17	42 27	35 37	36 38	27 52	0'9147	0'7167	1'1620
35	v	12	121	32 32	48 35	31 22	43 42	23 47	39 12	0'6098	0'9556	1'1336
36	λ	14	141	17 42	63 30	"	62 22	15 47	58 30	"	1'9112	2'0061
37	u	21	211	68 36	52 38	50 39	25 32	47 44	16 51	1'2196	0'4778	1'3099
38	w	$\frac{1}{2}\frac{3}{2}$	132	23 03	37 55	16 57	35 37	13 55	34 26	0'3049	0'7167	0'7789
39	σ	$\frac{1}{2}\frac{1}{2}$	172	10 20	59 32	"	59 07	8 53	57 59	"	1'6723	1'6999
40	z	$\frac{1}{3}2$	163	12 00	44 20	11 29	43 42	8 21	43 07	0'2032	0'9556	0'9770
41	β	32	321	62 25	64 09	61 20	"	52 54	24 37	1'8295	"	2'0640
42	ϱ	23	231	40 23	62 01	50 39	55 06	34 54	42 16	1'2196	1'4334	1'8820
43	y	$\frac{4}{3}$	431	59 33	70 32	67 42	"	54 23	28 32	2.4393	"	2'8293
44	ξ	$\frac{1}{3}\frac{4}{3}$	143	17 42	33 46	11 29	32 30	9 43	31 58	0'2032	0'6370	0'6687
45	φ	$\frac{1}{4}4$	174	10 20	40 21	8 40	39 54	6 40	39 34	0'1524	0'8361	0'8499
46	τ	47	471	36 06	76 25	67 42	73 21	34 56	51 45	2'4393	3'3446	4'1396
47	Φ	3'10	3'101	20 57	78 56	61 20	78 10	20 32	66 25	1'8295	4'7780	5'1162

Kieserit.

Monoklin.

a = 0'9097	lga = 995890	lga ₀ = 971204	lgp ₀ = 028796	a ₀ = 0'5153	p ₀ = 1'9407
c = 1'7655	lgc = 024686	lgb ₀ = 975314	lgq ₀ = 024679	b ₀ = 0'5664	q ₀ = 1'7652
$\mu = \left. \begin{array}{l} \\ \end{array} \right\} 88^\circ 59$	lgh = $\left. \begin{array}{l} \\ \end{array} \right\} 999993$	lgc = $\left. \begin{array}{l} \\ \end{array} \right\} 824903$	lg $\frac{p_0}{q_0}$ = 004117	h = 0'9998	e = 0'0174

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tge
1	c	0	001	90°00	1°01	1°01	0°00	1°01	0°00	0'0177	0	0'0177
2	u	$0\frac{1}{2}$	012	1 09	41 26	"	41 26	0 46	41 26	"	0'8827	0'8829
3	t	10	101	90 00	62 57	62 57	0 00	62 57	0 00	1'9584	0	1'9584

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
4	p	+ I	111	47° 43	69° 08	62° 44	60° 28	43° 44	38° 57	1'9410	1'7655	2'6238
5	y	+ $\frac{3}{5}$	335	48 08	57 47	49 46	46 39	39 03	34 23	1'1820	1'0592	1'5872
6	x	+ $\frac{1}{3}$	113	48 28	41 35	33 36	30 28	29 48	26 07	0'6644	0'5885	0'8875
7	?h	- $\frac{2}{5}$	229	46 32	29 42	22 29	21 25	21 04	19 55	0'4139	0'3923	0'5703
8	v	- $\frac{1}{3}$	113	46 56	40 45	32 12	30 28	28 29	26 28	0'6296	0'5885	0'8618
9	e	- I	111	47 27	69 02	62 32	60 28	43 28	39 09	1'9236	1'7655	2'6109

Klaprothit.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 013077; \quad \frac{p_0}{q_0} = 1'3513; \quad \frac{a}{b} = 0'74$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $tg \varrho$
1	a	∞	100	90° 00	90° 00	90° 00	0° 00	90° 00	0° 00	∞	0	∞
2	m	∞	110	53 30	"	"	90 00	53 30	36 30	1'3513	∞	"

Kobaltblüthe.

Monoklin.

a = 0'75	$\lg a = 987506$	$\lg a_0 = 002996$	$\lg p_0 = 997004$	$a_0 = 1'0714$	$p_0 = 0'9333$
c = 0'70	$\lg c = 984510$	$\lg b_0 = 015490$	$\lg q_0 = 983004$	$b_0 = 1'4286$	$q_0 = 0'6761$
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 75^\circ 00$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 998494$	$\lg c = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 941300$	$\lg \frac{p_0}{q_0} = 014000$	$h = 0'9659$	$e = 0'2588$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	b	∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	m	∞	110	54 05	"	90 00	"	54 05	35 55	1'3804	"	"
3	w	- 10	101	90 00	34 55	34 55	0 00	34 55	0 00	0'6983	0	0'6983
4	r	- $\frac{1}{2}$	112	31 35	22 20	12 08	19 17	11 29	18 53	0'2151	0'3500	0'4108
5	v	- I	111	44 56	44 40	34 55	34 59	29 46	29 51	0'6983	0'7000	0'9887

Koppit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ \infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ 90^\circ 00' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ '' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ 90^\circ 00' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ '' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ 90^\circ 00' \end{matrix}$	$\begin{matrix} 0 \\ '' \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1'0000	1'0000	1'4142

Kornerupin.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 006850; \quad \frac{p_0}{q_0} = 1'1708; \quad \frac{a}{b} = 0'854$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	b	∞	010	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	0	∞	∞
2	a	∞	100	$90^\circ 00'$	"	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	∞	0	"
3	m	∞	110	49 30	"	"	$90^\circ 00'$	49 30	40 30	1'1708	∞	"

Korund.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1'3636 \quad \lg c = 013468 \quad \lg a_0 = 010387 \quad \lg p_0 = 995859 \quad a_0 = 1'2702 \quad p_0 = 0'9091 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	-	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	0	0	0
2	a	∞	1010	$0^\circ 00'$	$90^\circ 00'$	"	$90^\circ 00'$	"	$90^\circ 00'$	"	∞	∞
3	b	∞	1120	$30^\circ 00'$	"	$90^\circ 00'$	"	$30^\circ 00'$	$60^\circ 00'$	0'5773	"	"
4	τ	$\frac{3}{2}\infty$	3250	23 25	"	"	"	23 25	66 35	0'4330	"	"
5	r	$\frac{5}{3}0$	6065	$0^\circ 00'$	47 29	$0^\circ 00'$	47 29	$0^\circ 00'$	47 29	0	1'0909	1'0909
6	λ	20	2031	"	61 11	"	61 11	"	61 11	"	1'8181	1'8181
7	μ	$\frac{7}{3}0$	7073	"	64 45	"	64 45	"	64 45	"	2'1211	2'1211
8	ν	30	3031	"	69 52	"	69 52	"	69 52	"	2'7271	2'7271
9	ϱ	$\frac{7}{2}0$	7072	"	72 33	"	72 33	"	72 33	"	3'1817	3'1817
10	α	$\frac{4}{3}0$	4041	"	74 37	"	74 37	"	74 37	"	3'6362	3'6362
11	A	$\frac{11}{2}0$	11'0'11'2	"	78 41	"	78 41	"	78 41	"	4'9998	4'9998

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
12	ξ	60	60 $\bar{6}$ 1	0°00	79°36'	0°00	79°36'	0°00	79°36'	0	5.4543	5.4543
13	β	70	70 $\bar{7}$ 1	"	81 04	"	81 04	"	81 04	"	6.3634	6.3634
14	γ	80	80 $\bar{8}$ 1	"	82 10	"	82 10	"	82 10	"	7.2725	7.2725
15	ε	12'0	12'0.12'1	"	84 46	"	84 46	"	84 46	"	10.909	10.909
16	ι	14'0	14'0.14'1	"	85 30'	"	85 30'	"	85 30'	"	12.727	12.727
17	T.	$\pm\frac{1}{5}$	11 $\bar{2}$ 5	30 00	17 29	8 57	15 15'	8 38'	15 04'	0.1574	0.2727	0.3149
18	S.	$\pm\frac{1}{3}$	11 $\bar{2}$ 3	"	27 41'	14 42	24 26'	13 26	23 44	0.2624	0.4545	0.5249
19	f.	$\pm\frac{1}{2}$	11 $\bar{2}$ 2	"	38 12'	21 29	34 17	18 01	32 32'	0.3936	0.6818	0.7873
20	p. x.	± 1	11 $\bar{2}$ 1	"	57 35	38 12'	53 44'	24 58	46 58'	0.7873	1.3636	1.5745
21	φ .	-2	2 $\bar{2}$ 41	"	72 23	57 35	69 52	28 27'	55 38	1.5745	2.7271	3.1491
22	j. Δ .	$\pm\frac{2}{3}$	7.7.14.2	"	79 43	70 03	78 10	29 28	58 26'	2.7555	4.7706	5.5109
23	q.	$\pm\frac{1}{7}$	7.7.14.1	"	84 49	79 43	84 01	29 52	59 36	5.5109	9.5450	11.022
24	a.	$\pm\frac{8}{3}\frac{2}{5}$	8.2.10.5	10 53'	59 02	17 29	58 34	9 19'	57 21	0.3149	1.6363	1.6663
25	b.	$\pm\frac{7}{4}\frac{1}{2}$	7.18.4	6 35'	59 46	11 08	59 36	5 41	59 07	0.1968	1.7045	1.7158
26	Q.	$-\frac{4}{3}\frac{2}{5}$	4 $\bar{2}$ 63	19 06'	58 03	27 41'	56 34'	16 07'	53 18	0.5248	1.5151	1.6034

Kraurit.

Rhombisch.

a = 0.8734	lg a = 994121	lg a ₀ = 031160	lg p ₀ = 968840	a ₀ = 2.0493	p ₀ = 0.4880
c = 0.4262	lg c = 962961	lg b ₀ = 037039	lg q ₀ = 962961	b ₀ = 2.3462	q ₀ = 0.4262

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	b	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	e	∞	110	48 52	"	"	90 00	48 52	41 08	1.1449	∞	"
4	?f	$\infty 2$	120	29 47'	"	"	"	29 47'	60 12'	0.5724'	"	"
5	h	01	011	0 00	23 05	0 00	23 05	0 00	23 05	0	0.4262	0.4262

Kremersit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =lg ϱ
1	p	1	111	45°00	54°44	45°00	45°00	35°16	35°16	1.0000	1.0000	1.4142

Krennerit.

Rhombisch.

a = 0.9392	lg a = 997276	lg a ₀ = 026775	lg p ₀ = 973225	a ₀ = 1.8525	p ₀ = 0.5398
c = 0.5070	lg c = 970501	lg b ₀ = 029499	lg q ₀ = 970501	b ₀ = 1.9724	q ₀ = 0.5070

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	f	3∞	310	72 37	"	"	90 00	72 37	17 23	3.1942	∞	"
5	k	2∞	210	64 50	"	"	"	64 50	25 09	2.1294	"	"
6	l	$\frac{3}{2}\infty$	320	57 57	"	"	"	57 57	32 03	1.5971	"	"
7	m	$\frac{3}{2}\infty$	110	46 47	"	"	"	46 47	43 12	1.0647	"	"
8	σ	$\frac{3}{2}\infty$	230	35 22	"	"	"	35 22	54 38	0.7098	"	"
9	n	∞2	120	28 02	"	"	"	28 02	61 58	0.5323	"	"
10	S	∞3	130	19 32	"	"	"	19 32	70 27	0.3549	"	"
11	e	01	011	0 00	26 53	0 00	26 53	0 00	26 53	0	0.5070	0.5070
12	d	02	021	"	45 24	"	45 24	"	45 24	"	1.0140	1.0140
13	q	03	031	"	56 40	"	56 40	"	56 40	"	1.5210	1.5210
14	s	04	041	"	63 45	"	63 45	"	63 45	"	2.0280	2.0280
15	g	$\frac{1}{2}0$	102	90 00	15 06	15 06	0 00	15 06	0 00	0.2699	0	0.2699
16	h	$\frac{1}{2}0$	101	"	28 21	28 21	"	28 21	"	0.5398	"	0.5398
17	e	20	201	"	47 07	47 07	"	47 07	"	1.0796	"	1.0796
18	τ	30	301	"	58 18	58 18	"	58 18	"	1.6195	"	1.6195
19	p	$\frac{2}{3}1$	211	64 50	50 01	47 11	26 53	43 56	19 00	1.0796	0.5070	1.1928
20	i	$\frac{2}{3}1$	322	57 57	43 41	39 00	"	35 50	21 30	0.8096	"	0.9554
21	o	11	111	46 47	36 31	28 21	"	25 42	24 02	0.5398	"	0.7406
22	u	$\frac{1}{2}1$	122	28 02	29 52	15 06	"	13 32	26 05	0.2699	"	0.5744
23	t	12	121	"	48 57	28 21	45 24	20 45	41 44	0.5398	1.0140	1.1487
24	w	$\frac{1}{4}\frac{1}{2}$	124	"	16 01	7 41	14 13	7 27	14 06	0.1349	0.2535	0.2872
25	v	$\frac{3}{2}3$	362	"	59 52	39 00	56 40	23 59	49 46	0.8096	1.5210	1.7231

Kröhnkit.

Monoklin.

$a = 0.4462$	$\lg a = 964953$	$\lg a_0 = 001084$	$\lg p_0 = 998916$	$a_0 = 1.0253$	$p_0 = 0.9753$
$c = 0.4352$	$\lg c = 963869$	$\lg b_0 = 036131$	$\lg q_0 = 961855$	$b_0 = 2.2978$	$q_0 = 0.4155$
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 72^\circ 41$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 997986$	$\left. \begin{matrix} \lg c \\ \lg \cos \mu \end{matrix} \right\} 947371$	$\lg \frac{p_0}{q_0} = 037061$	$h = 0.9547$	$e = 0.2977$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	b	00	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	m	∞	110	66 55'	"	90 00	"	66 55'	23 04'	2.3475	0	"
3	e	01	011	35 37	28 10	17 19	23 31	15 57'	22 34	0.3118	0.4352	0.5354
4	p	1	111	71 55'	54 31	53 08	"	50 43'	14 38	1.3334	"	1.4026

Kryolith.

Monoklin.

$a = 0.9662$	$\lg a = 998507$	$\lg a_0 = 984259$	$\lg p_0 = 015741$	$a_0 = 0.6960$	$p_0 = 1.4368$
$c = 1.3883$	$\lg c = 014248$	$\lg b_0 = 985752$	$\lg q_0 = 014248$	$b_0 = 0.7203$	$q_0 = 1.3883$
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 89^\circ 49$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 0$	$\left. \begin{matrix} \lg c \\ \lg \cos \mu \end{matrix} \right\} 750512$	$\lg \frac{p_0}{q_0} = 001493$	$h = 1$	$e = 0.0032$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	c	0	001	90° 00	0° 11	0° 11	0° 00	0° 11	0° 00	0.0032	0	0.0032
2	a	$\infty 0$	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	m	∞	110	45 59	"	"	90 00	45 59	44 01	1.0349	∞	"
4	r	01	011	0 08	54 14	0 11	54 14	0 06'	54 14	0.0032	1.3883	1.3883
5	v	+10	101	90 00	55 13'	55 13'	0 00	55 13'	0 00	1.4400	0	1.4400
6	k	-10	101	90 00	55 06	55 06	"	55 06	"	1.4336	"	1.4336
7	p	+1	111	46 03	63 26	55 13'	54 14	40 05	38 22'	1.4400	1.3883	2.0002
8	z	+ $\frac{1}{2}$	112	46 07	45 02	35 49	34 46	30 39'	29 22'	0.7216	0.6941	1.0013
9	q	-1	111	45 55	63 23	55 06	54 14	39 57'	38 27'	1.3691	1.3883	1.9956
10	s	+12	121	27 25	72 16	55 13'	70 11'	26 00'	57 44	1.4400	2.7765	3.1277
11	e	+1 $\frac{2}{3}$	323	57 16	59 42'	"	42 47	46 35	27 50	"	0.9255	1.7118
12	t	-12	121	27 18'	72 15	55 06	70 11'	25 54'	57 48'	1.3691	2.7765	3.1248
13	x	+1 $\frac{7}{6}$	176	8 31	58 35'	13 48'	58 18'	7 16	57 34	0.2426	1.6196	1.6378

Kupfer.

Regulär.

N ^o .	Buchstaben	Symb.	Miller	φ	ρ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ρ
1	c	{ 0 0 ∞	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
			010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
2	f	{ 0 $\frac{1}{4}$ 04 ∞ 4	014	"	14 02	"	14 02	"	14 02	"	0'2500	0'2500
			041	"	75 58	"	75 58	"	75 58	"	4'0000	4'0000
			140	14 02	90 00	90 00	90 00	14 02	"	0'2500	∞	∞
3	a	{ 0 $\frac{1}{3}$ 03 ∞ 3	013	0 00	18 26	0 00	18 26	0 00	18 26	0	0'3333	0'3333
			031	"	71 34	"	71 34	"	71 34	"	3'0000	3'0000
			130	18 26	90 00	90 00	90 00	18 26	"	0'3333	∞	∞
4	g	{ 0 $\frac{2}{5}$ 05 ∞ $\frac{2}{5}$	025	0 00	21 48	0 00	21 48	0 00	21 48	0	0'4000	0'4000
			052	"	68 12	"	68 12	"	68 12	"	2'5000	2'5000
			250	21 48	90 00	90 00	90 00	21 48	"	0'4000	∞	∞
5	D	{ 0 $\frac{3}{7}$ 07 ∞ $\frac{3}{7}$	037	0 00	23 12	0 00	23 12	0 00	23 12	0	0'4286	0'4286
			073	"	66 48	"	66 48	"	66 48	"	2'3333	2'3333
			370	23 12	90 00	90 00	90 00	23 12	"	0'4286	∞	∞
6	e	{ 0 $\frac{1}{2}$ 02 ∞ 2	012	0 00	26 34	0 00	26 34	0 00	26 34	0	0'5000	0'5000
			021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
			120	26 34	90 00	90 00	90 00	26 34	"	0'5000	∞	∞
7	a	{ 0 $\frac{4}{7}$ 07 ∞ $\frac{4}{7}$	047	0 00	29 44'	0 00	29 44'	0 00	29 44'	0	0'5714	0'5714
			074	"	60 15'	"	60 15'	"	60 15'	"	1'7500	1'7500
			470	29 44'	90 00	90 00	90 00	29 44'	"	0'5714	∞	∞
8	h	{ 0 $\frac{3}{5}$ 05 ∞ $\frac{3}{5}$	035	0 00	30 58	0 00	30 58	0 00	30 58	0	0'6000	0'6000
			053	"	59 02	"	59 02	"	59 02	"	1'6667	1'6667
			350	30 58	90 00	90 00	90 00	30 58	"	0'6000	∞	∞
9	d	{ 01 ∞	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
10	r	{ $\frac{1}{6}$ 16	116	"	13 15'	9 27'	9 27'	9 20	9 20	0'1667	0'1667	0'2357
			161	9 27'	80 40	45 00	80 32	"	76 44	1'0000	6'0000	6'0827
11	l	{ $\frac{1}{5}$ 15	115	45 00	15 47'	11 18'	11 18'	11 06	11 06	0'2000	0'2000	0'2828
			151	11 18'	78 54	45 00	78 41'	"	74 12'	1'0000	5'0000	5'0989
12	k	{ $\frac{1}{4}$ 14	114	45 00	19 28	14 02	14 02	13 38	13 38	0'2500	0'2500	0'3535
			141	14 02	76 22	45 00	75 58	"	70 32	1'0000	4'0000	4'1231
13	m	{ $\frac{1}{3}$ 13	113	45 00	25 14'	18 26	18 26	17 33	17 33	0'3333	0'3333	0'4714
			131	18 26	72 27	45 00	71 34	"	64 45'	1'0000	3'0000	3'1623
14	q	{ $\frac{1}{2}$ 12	112	45 00	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
15	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
16	ψ	{ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{2}$ 2 24	124	26 34	29 12'	14 02	26 34	12 36'	25 52'	0'2500	0'5000	0'5590
			142	14 02	64 07'	26 34	63 26	"	60 47'	0'5000	2'0000	2'0615
			241	26 34	77 23'	63 26	75 58	25 52'	"	2'0000	4'0000	4'4721

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ		
17	z	$\left\{ \begin{array}{l} \frac{1}{5} \frac{3}{5} \\ \frac{1}{3} \frac{3}{3} \\ 35 \end{array} \right.$	135 153 351	18° 26' 11 18' 30 58'	32° 18' 59 32' 80 16'	11° 18' 18 26' 71 34'	30° 58' 59 02' 78 41'	9° 44' " 30 28'	30° 28' 57 41' "	0'2000 0'3333 3'0000	0'6000 1'6667 5'0000	0'6325 1'6096 5'8310		
		18	η	$\left\{ \begin{array}{l} \frac{1}{6} \frac{4}{4} \\ \frac{2}{3} \frac{4}{4} \\ \frac{3}{2} \frac{6}{6} \end{array} \right.$	2'3'12 2'12'3 3'12'2	33 41' 9 27' 14 02'	16 43' 76 09' 80 49'	9 27' 33 41' 56 18'	14 02' 75 58' 80 32'	9 11' " 13 51'	13 51' 73 16' "	0'1667 0'6667 1'5000	0'2500 4'0000 6'0000	0'3005 4'0552 6'1846
				19	ϑ	$\left\{ \begin{array}{l} \frac{1}{1} \frac{6}{6} \\ \frac{1}{3} \frac{6}{6} \\ 6,11 \end{array} \right.$	1'6'11 1'11'6 6'11'1	9 27' 5 11' 28 37'	28 56' 61 29' 85 26'	5 11' 9 27' 80 32'	28 36' 61 23' 84 48'	4 34' " 28 30'	28 30' 61 03' "	0'0909 0'1667 6'0000
20	t					$\left\{ \begin{array}{l} \frac{5}{18} \frac{5}{9} \\ \frac{1}{2} \frac{9}{9} \\ 2 \frac{18}{5} \end{array} \right.$	5'10'18 5'18'10 10'18'5	26 34' 15 31' 29 03'	31 51' 61 50' 76 21'	15 31' 26 34' 63 26'	29 03' 60 56' 74 28'	13 39' " 28 09'	28 09' 58 09' "	0'2778 0'5000 2'0000

Kupferglanz.

Rhombisch.

a = 0'5822	lg a = 976507	lg a ₀ = 977825	lg p ₀ = 022175	a ₀ = 0'6001	p ₀ = 1'6663
c = 0'9701	lg c = 998682	lg b ₀ = 001318	lg q ₀ = 998682	b ₀ = 1'0308	q ₀ = 0'9701

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	a	0∞	010	0° 00'	90 00'	"	90 00'	"	90 00'	"	∞	∞
3	b	∞0	100	90 00'	"	90 00'	0 00'	90 00'	0 00'	∞	0	"
4	m	∞	110	59 47'	"	"	90 00'	59 47'	30 12'	1'7176	∞	"
5	n	∞ $\frac{2}{3}$	230	48 52'	"	"	"	48 52'	41 08'	1'1451	"	"
6	l	∞ $\frac{3}{2}$	130	29 47'	"	"	"	29 47'	60 12'	0'5725	"	"
7	f	0 $\frac{1}{2}$	012	0 00'	25 52'	0 00'	25 52'	0 00'	25 52'	0	0'4851	0'4851
8	e	0 $\frac{2}{3}$	023	"	32 53'	"	32 53'	"	32 53'	"	0'6467	0'6467
9	g	01	011	"	44 08'	"	44 08'	"	44 08'	"	0'9701	0'9701
10	h	0 $\frac{5}{3}$	053	"	58 16'	"	58 16'	"	58 16'	"	1'6172	1'6172
11	d	02	021	"	62 44'	"	62 44'	"	62 44'	"	1'9402	1'9402
12	i	0 $\frac{5}{2}$	052	"	67 35'	"	67 35'	"	67 35'	"	2'4253	2'4253
13	x	$\frac{1}{4}$	114	59 47'	25 44'	22 37'	13 38'	22 02'	12 37'	0'4166	0'2425	0'4820
14	z	$\frac{1}{3}$	113	"	32 43'	29 03'	17 55'	27 51'	15 47'	0'5554	0'3234	0'6427
15	v	$\frac{1}{2}$	112	"	43 57'	39 48'	25 52'	36 51'	20 26'	0'8331	0'4850	0'9641
16	p	1	111	"	62 35'	59 02'	44 08'	50 06'	26 31'	1'6663	0'9701	1'9281
17	w	4	441	"	82 36'	81 28'	75 33'	58 59'	29 56'	6'6651	3'8804	7'7124
18	q	12	121	40 40'	68 38'	59 02'	62 44'	37 21'	44 57'	1'6663	1'9402	2'5575

Kupferglimmer.

Hexagonal. Rhomboedrisch-hemledrisch.

$$c = 2.554 \quad \lg c = 0.40722 \quad \lg a_0 = 9.83134 \quad \lg p_0 = 0.23113 \quad a_0 = 0.6782 \quad p_0 = 1.702 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	∞	1120	30°00	90 00	90 00	90 00	30 00	60 00	0.5773	∞	∞
3	w	$+\frac{1}{6}$	1126	"	26 10'	13 48'	23 03'	12 44'	22 27'	0.2458	0.4257	0.4915
4	d	$-\frac{1}{3}$	1123	"	44 30'	26 10'	40 24'	20 31'	37 23'	0.4915	0.8513	0.9830
5	f δ	$\pm\frac{1}{2}$	1122	"	55 51'	36 24'	51 56'	24 26'	45 47'	0.7373	1.2770	1.4746
6	p'	+1	1121	"	71 16'	55 51'	68 37'	28 16'	55 06'	1.4745	2.5540	2.9491
7	a'	+2	2241	"	80 22'	71 16'	78 55'	29 32'	58 38'	2.9491	5.1080	5.8982

Kupferindig.

Hexagonal.

$$c = 1.720 \quad \lg c = 0.23553 \quad \lg a_0 = 0.00303 \quad \lg p_0 = 0.05944 \quad a_0 = 1.0070 \quad p_0 = 1.1467 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	∞	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	r	10	1011	"	48 54'	"	48 54'	"	48 54'	"	1.1468	1.1468
4	f	40	4041	"	77 42'	"	77 42'	"	77 42'	"	4.5867	4.5867

Kupferkies.

Tetragonal. Domatisch-hemiedrisch.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1.3933 \quad \lg c = 0.14404 \quad \lg a_0 = 9.85596 \quad a_0 = 0.7177$$

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	m	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞	110	45°00	"	"	"	45 00	45 00	1.0000	"	"
4	w	$\infty 2$	120	26 34'	"	"	"	26 34'	63 26'	0.5000	"	"
5	d	$-\frac{1}{2}$	014	0 00	19 12'	"	19 12'	0 00	19 12'	o	0.3483	0.3483

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{(Prismen)} (x:y)$	y	d =tg ϱ
6	x	$-0\frac{1}{3}$	013	0°00	24°54'	0°00	24°54'	0°00	24°54'	0	0'4644	0'4644
7	n	$+0\frac{1}{2}$	012	"	34 52	"	34 52	"	34 52	"	0'6966	0'6966
8	p	± 01	011	"	54 20	"	54 20	"	54 20	"	1'3933	1'3933
9	r	$+0\frac{3}{2}$	032	"	64 26	"	64 26	"	64 26	"	2'0899	2'0899
10	t	± 02	021	"	70 15'	"	70 15'	"	70 15'	"	2'7866	2'7866
11	u	$+04$	041	"	79 49'	"	79 49'	"	79 49'	"	5'5731	5'5731
12	g	$\frac{1}{3}$	113	45 00	33 18	24 54'	24 54'	22 50'	22 50'	0'4644	0'4644	0'6568
13	e	$\frac{1}{2}$	112	"	44 34'	34 51'	34 51'	29 45	29 45	0'6966	0'6966	0'9852
14	h	$\frac{3}{4}$	334	"	55 55	46 15'	46 15'	35 51	35 51	1'0449	1'0449	1'4778
15	z	1	111	"	63 05'	54 20	54 20	39 05'	39 05'	1'3933	1'3933	1'9704
16	φ	$\frac{1}{4}1$	144	14 02	55 09	19 12	"	11 29	52 46	0'3483	"	1'4362
17	A	$\frac{1}{3}1$	133	18 26	55 45	24 54'	"	15 09	51 38'	0'4644	"	1'4686
18	τ	$\frac{1}{2}1$	122	26 34	57 18	34 52	"	22 06'	48 49'	0'6966	"	1'5577
19	ξ	$\frac{2}{3}1$	355	30 58	58 23'	39 53'	"	25 59	46 54'	0'8359	"	1'6248
20	s	$\frac{2}{3}1$	233	33 41'	59 09'	42 53'	"	28 26'	45 35'	0'9288	"	1'6745
21	χ	$\frac{1}{8}\frac{1}{2}$	148	14 02	35 41	9 53	34 52	8 08	34 27'	0'1741	0'6966	0'7181
22	y	$\frac{1}{4}\frac{1}{2}$	123	26 34	46 05	24 54'	42 53'	18 47'	40 06'	0'4644	0'9288	1'0385
23	C	$\frac{1}{7}\frac{1}{7}$	157	11 18'	45 25'	11 15	44 51'	8 02	44 18'	0'1990	0'9952	1'0149
24	D	$\frac{1}{11}\frac{9}{11}$	1'9'11	6 20'	48 55	7 13	48 44'	4 46'	48 31	0'1266	1'1400	1'1469
25	k	$\frac{2}{3}$	231	33 41'	78 44'	70 15'	76 32'	32 57'	54 41'	2'6006	4'1798	5'0235
26	f	$\frac{1}{6}\frac{1}{3}$	126	26 34	27 26'	13 04'	24 54'	11 53'	24 20'	0'2322	0'4644	0'5192
27	σ	$-\frac{3}{10}\frac{7}{10}$	3'7'10	23 12	46 42	22 41	44 17	16 39'	41 59	0'4180	0'9753	1'0611
28	B	$\frac{9}{5}\frac{1}{5}$	9'13'5	34 41'	77 12'	68 15'	74 34	33 43	53 18	2'5079	3'6225	4'4059

Kupferlasur.

Monoklin.

a = 0'8502	lg a = 992952	lg a ₀ = 998479	lg p ₀ = 001521	a ₀ = 0'9656	p ₀ = 1'0357
c = 0'8805	lg c = 994473	lg b ₀ = 005527	lg q ₀ = 994435	b ₀ = 1'1357	q ₀ = 0'8797
$\mu_{180-\beta} = \left. \begin{array}{l} \\ \end{array} \right\} 87^\circ 36'$	$\lg h = \left. \begin{array}{l} \\ \end{array} \right\} 999962$	$\lg e = \left. \begin{array}{l} \\ \end{array} \right\} 862196$	$\lg \frac{p_0}{q_0} = 007086$	h = 0'9991	e = 0'0419

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x'}{(Prismen)} (x:y)$	y'	d' =tg ϱ
1	c	0	001	90°00	2°24	2°24	0°00	2°24	0°00	0'0419	0	0'0419
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	g	2∞	210	66 59'	"	"	90 00	66 59'	23 00'	2'3544	∞	"
5	l	$\frac{3}{2}\infty$	320	60 28'	"	"	"	60 28'	29 31'	1'7658	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tg ϱ
6	m	∞	110	49° 39'	90° 00'	90° 00'	90° 00'	49° 39'	40° 21'	1'1772	∞	∞
7	w	$\infty 2$	120	30 29	"	"	"	30 29	59 31	0'5886	"	"
8	C	$0 \frac{1}{8}$	018	20 51	6 43	2 24	6 17	2 23	6 16'	0'0419	0'1100'	0'1178
9	G	$0 \frac{1}{5}$	016	15 58'	8 40'	"	8 21	2 22'	8 20'	"	0'1467'	0'1526
10	S	$0 \frac{1}{4}$	014	10 47	12 38	"	12 25	2 20'	12 24	"	0'2201	0'2241
11	q	$0 \frac{2}{3}$	025	6 47	19 32	"	19 24	2 16	19 23	"	0'3522	0'3547
12	E	$0 \frac{1}{3}$	012	5 26'	23 51'	"	23 46	2 12	23 44'	"	0'4402'	0'4422
13	l	$0 \frac{2}{3}$	023	4 05	30 28'	"	30 25	2 04	30 23'	"	0'5870	0'5885
14	f	01	011	2 43'	41 23'	"	41 22	1 48	41 20	"	0'8805	0'8815
15	K	$0 \frac{3}{8}$	032	1 49	52 53	"	52 52	1 27	52 50'	"	1'3207'	1'3214
16	p	02	021	1 22	60 25	"	60 24'	1 11	60 23	"	1'7610	1'7615
17	L	03	031	0 54'	69 16	"	69 16	0 51	69 15	"	2'6415	2'6418
18	φ	+20	201	90 00	64 42	64 42	0 00	64 42	0 00	2'1151	0	2'1151
19	σ	+10	101	"	47 10	47 10	"	47 10	"	1'0785'	"	1'0785'
20	ζ	+ $\frac{1}{2}$ 0	102	"	29 15'	29 15'	"	29 15'	"	0'5602	"	0'5602
21	c	+ $\frac{3}{7}$ 0	307	"	25 55'	25 55'	"	25 55'	"	0'4862	"	0'4862
22	M	+ $\frac{1}{4}$ 0	104	"	16 45'	16 45'	"	16 45'	"	0'3010'	"	0'3010'
23	r	- $\frac{1}{8}$ 0	108	90 00	5 00'	5 00'	"	5 00'	"	0'0875'	"	0'0875'
24	μ	- $\frac{1}{5}$ 0	105	"	9 23'	9 23'	"	9 23'	"	0'1653	"	0'1653
25	D	- $\frac{1}{4}$ 0	104	"	12 15	12 15	"	12 15	"	0'2171'	"	0'2171'
26	F	- $\frac{2}{7}$ 0	207	"	14 16	14 16	"	14 16	"	0'2542	"	0'2542
27	A	- $\frac{1}{5}$ 0	103	"	16 53	16 53	"	16 53	"	0'3035'	"	0'3035'
28	a	- $\frac{2}{5}$ 0	205	"	20 26'	20 26'	"	20 26'	"	0'3727	"	0'3727
29	n	- $\frac{1}{2}$ 0	102	"	25 28	25 28	"	25 28	"	0'4763	"	0'4763
30	N	- $\frac{5}{7}$ 0	507	"	34 56	34 56	"	34 56	"	0'6985	"	0'6985
31	b	- $\frac{2}{3}$ 0	203	"	32 59'	32 59'	"	32 59'	"	0'6492	"	0'6492
32	T	- $\frac{4}{5}$ 0	405	"	38 13	38 13	"	38 13	"	0'7874	"	0'7874
33	Θ	-10	101	"	44 51	44 51	"	44 51	"	0'9947	"	0'9947
34	W	- $\frac{6}{5}$ 0	605	"	50 14'	50 14'	"	50 14'	"	1'2020	"	1'2020
35	B	- $\frac{5}{4}$ 0	504	"	51 25'	51 25'	"	51 25'	"	1'2538	"	1'2538
36	η	- $\frac{3}{2}$ 0	302	"	56 32	56 32	"	56 32	"	1'5129	"	1'5129
37	v	-20	201	"	63 47'	63 47'	"	63 47'	"	2'0313	"	2'0313
38	ψ	-30	301	"	71 57	71 57	"	71 57	"	3'0678	"	3'0678
39	h	+2	221	50 13'	70 02	64 42	60 24'	46 15	36 58	2'1151'	1'7610	2'7522
40	s	+1	111	50 46'	54 19	47 10	41 22	38 59'	30 54'	1'0785'	0'8805	1'3923
41	P	+ $\frac{2}{3}$	223	51 19	43 12	36 14'	30 25	32 18	25 20	0'7330'	0'5870	0'9391
42	t	- $\frac{2}{5}$	225	46 37'	27 09	20 26'	19 24	19 22	18 16	0'3727	0'3522	0'5128
43	Q	- $\frac{1}{3}$	112	47 14	32 58	25 27	23 46	23 32	21 41	0'4759	0'4402'	0'6483
44	Z	- $\frac{4}{7}$	447	47 34	36 42'	28 49'	26 42'	26 11	23 47	0'5504	0'5032	0'7457
45	u	- $\frac{2}{3}$	223	47 53	41 11'	32 59'	30 25	29 14'	24 13	0'6492	0'5870	0'8752
46	x	-1	111	48 29	53 02	44 51	41 22	36 44'	31 58'	0'9947	0'8805	1'3284
47	k	-2	221	49 04'	69 36	63 47'	60 24'	45 05'	37 52'	2'0313	1'7610	2'6883

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
48	π	-4	441	49° 22	29° 31'	76° 18'	74° 09	48° 16	39° 49	4'1045	3'5220	5'4085
49	γ	+12	121	31 29	64 10	47 10	60 24'	28 02'	50 08	1'0785	1'7610	2'0650
50	Σ	-1 $\frac{3}{2}$	232	36 59	58 50	44 51	52 52	30 59	43 07	0'9947	1'3208	1'6534
51	ν	-1 $\frac{5}{3}$	353	34 08	60 34'	"	55 44	29 15'	46 08	"	1'4675	1'7728
52	α	-12	121	29 27'	63 41'	"	60 24'	26 09'	51 18'	"	1'7610	2'0225
53	y	-21	211	66 34	65 41'	63 47'	41 22	56 44	21 15	2'0313	0'8805	2'2139
54	z	-41	411	77 53'	76 36	76 18'	"	72 01	11 46	4'1055	"	4'1989
55	ω	+24	241	30 59	76 19	64 42	74 09	30 01	56 24'	2'1151	3'5220	4'1084
56	τ	-2 $\frac{3}{5}$	683	40 52	72 09	63 47'	66 56	38 31	46 02'	2'0313	2'3480	3'1047
57	R	-24	241	29 58'	76 11	"	74 09	29 01'	57 16	"	3'5220	4'0658
58	ξ	+32	321	60 48'	74 31	72 24	60 24'	57 16'	28 02	3'1517	1'7610	3'6103
59	G	-32	321	60 08'	74 13	71 57	"	56 34	28 37'	3'0679	"	3'5373
60	K	-1 $\frac{2}{5}$	12'10'5	54 15	71 39	67 46	"	50 22'	33 41	2'4459	"	3'0141
61	J	+1 $\frac{2}{3}$	132	22 59	55 07'	29 15'	52 52	18 41	49 03	0'5602	1'3208	1'4347
62	χ	+1 $\frac{1}{2}$	1'11'2	6 36	78 24'	"	78 20	6 28	76 41	"	4'8428	4'8751
63	β	-3 $\frac{2}{3}$	362	24 48	71 49	56 32	69 16	28 10'	55 32	1'5130	2'6415	3'0442
64	ϱ	-1 $\frac{2}{3}$	134	18 11'	38 48	12 14'	33 26'	10 16	32 50	0'2170	0'6604	0'6951
65	S	-1 $\frac{2}{5}$	125	25 09	21 16	9 23'	19 24	8 52	19 10	0'1654	0'3522	0'3891
66	λ	-2 $\frac{3}{6}$	2'18'3	7 00'	79 21'	32 59'	79 17	6 53	77 17	0'6492	5'2830	5'3228
67	δ	+2 $\frac{4}{3}$	243	31 59	54 09	36 14'	49 34'	25 25'	43 26'	0'7330	1'1740	1'3841
68	d	-2 $\frac{4}{3}$	243	28 57	53 18	32 59'	"	22 50	44 34'	0'6492	"	1'3415
69	Δ	-2 $\frac{1}{3}$	2'10'3	12 28'	71 36	"	71 11	11 49'	67 53'	"	2'9350	3'0199
70	e	-2 $\frac{4}{5}$	2'4'5	27 53	38 33	20 26'	35 09'	16 57	33 25'	0'3727	0'7044	0'7970
71	H	+4 $\frac{1}{7}$	4'10'7	26 45'	54 38	32 23	51 31	21 32'	46 44	0'6342	1'2579	1'4087

Kupferuranit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1'4691 \quad \lg c = 0'16705 \quad \lg a_0 = 983295 \quad a_0 = 0'6807$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	o	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	n	00∞	010	0° 00	90 00	0° 00	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
4	d	0 $\frac{2}{3}$	025	0 00	30 26'	0 00	30 26'	0 00	30 26'	o	0'5876	0'5876
5	g	0 $\frac{1}{2}$	012	"	36 18	"	36 18	"	36 18	"	0'7345	0'7345
6	E	0 $\frac{4}{7}$	047	"	40 01	"	40 01	"	40 01	"	0'8395	0'8395
7	e	0 $\frac{2}{3}$	023	"	44 24	"	44 24	"	44 24	"	0'9794	0'9794
8	z	0 $\frac{3}{5}$	035	"	41 23'	"	41 23'	"	41 23'	"	0'8814	0'8814
9	ϵ	0 $\frac{7}{9}$	067	"	51 32'	"	51 32'	"	51 32'	"	1'2592	1'2592

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
10	y	01	011	0° 00	55° 45'	0° 00	55° 45'	0° 00	55° 45'	0	1'4691	1'4691
11	f	0 $\frac{1}{2}$	043	"	62 57'	"	62 57'	"	62 57'	"	1'9588	1'9588
12	P	02	021	"	71 12	"	71 12	"	71 12	"	2'9382	2'9382
13	c	$\frac{1}{2}$	112	45 00	46 05'	36 18	36 18	30 37'	30 37'	0'7345	0'7345	1'0388
14	p	1	111	"	64 18	55 45'	55 45'	39 34'	39 34'	1'4691	1'4691	2'0776
15	v	$\frac{3}{2}$	332	"	72 12'	65 35'	65 35'	42 19	42 19	2'2036	2'2036	3'1163

Kupfervitriol.

Triklin.

$p_0 = 0.8982$	$\lambda = 65^\circ 04'$	$a = 0.5329$	$\alpha = 112^\circ 50'$	$x_0 = 0.2624$	$d = 0.4965$
$q_0 = 0.4974$	$\mu = 70^\circ 22'$	$b = 1$	$\beta = 106^\circ 49'$	$y_0 = 0.4215$	$\delta = 31^\circ 54'$
$r_0 = 1$	$\nu = 79^\circ 19'$	$c = 0.5187$	$\gamma = 92^\circ 56'$	$h = 0.8680$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	k	0	001	31° 54'	29° 46'	16° 49'	25° 54'	15° 13'	24° 56'	0'3023	0'4856	0'5720
2	r	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	n	$\infty 0$	100	79 19	"	90 00	"	79 19	10 41	5'3008	"	"
4	m	∞	110	53 03	"	"	"	53 03	36 57	1'3295	"	"
5	t	2 ∞	210	64 48'	"	"	"	64 48'	25 11'	2'1258	"	"
6	f	3 ∞	310	69 22	"	"	"	69 22	20 38	2'5957	"	"
7	d	2 $\overline{\infty}$	210	95 19	"	"	90 00	84 41	5 19	10'738	"	"
8	e	$\infty\overline{\infty}$	110	110 33	"	"	"	69 27	30 33	2'6674	"	"
9	h	$\infty\overline{2}$	120	133 11	"	"	"	46 49	43 11	1'0656	"	"
10	a	$\infty\overline{3}$	130	146 20'	"	"	"	33 39'	56 20'	0'6658	"	"
11	v	01	011	15 56	47 45	16 49	46 38	11 43'	45 23	0'3023	1'0586	1'1010
12	o	01	011	106 07	17 28	"	4 59'	16 45'	4 46'	"	0'0873	3'1466
13	q	0 $\overline{2}$	0 $\overline{2}$ 1	155 24	35 59'	"	33 26'	14 09'	32 18	"	0'6604	7'2627
14	w	0 $\overline{3}$	0 $\overline{3}$ 1	166 13'	51 47'	"	50 58	10 46'	49 44	"	1'2334	1'2699
15	p	10	101	67 39	37 41'	35 33	16 22'	34 26	13 26'	0'7145	0'2938	0'7726
16	s	11	111	39 30	48 19'	"	40 55	38 22	35 11'	"	0'8668	1'1233
17	x	12	121	36 23'	58 07'	"	55 13	22 10'	49 31	"	1'4399	1'6074
18	z	13	131	153 22'	57 54	"	54 57	22 19	49 14	"	1'4253	1'5944

Lanarkit.

Monoklin.

$a = 1.4934$	$\lg a = 017418$	$\lg a_o = 003317$	$\lg p_o = 996683$	$a_o = 1.0794$	$p_o = 0.9264$
$c = 1.3836$	$\lg c = 014101$	$\lg b_o = 985899$	$\lg q_o = 008121$	$b_o = 0.7227$	$q_o = 1.2056$
$\mu = \left. \begin{array}{l} \\ \\ \end{array} \right\} 60^\circ 37$ $180 - \beta$	$\lg h = \left. \begin{array}{l} \\ \\ \end{array} \right\} 994020$ $\lg \sin \mu$	$\lg e = \left. \begin{array}{l} \\ \\ \end{array} \right\} 969077$ $\lg \cos \mu$	$\lg \frac{p_o}{q_o} = 988562$	$h = 0.8714$	$e = 0.4906$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \varrho$
1	u	o	001	90° 00	29° 23	29° 23	0° 00	29° 23	0° 00	0.5630	o	0.5630
2	a	∞o	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	c	$-\frac{1}{2}o$	102	"	1 48	1 48	"	1 48	"	0.0314	"	0.0314
4	σ	$-\frac{1}{4}o$	110.4	90 00	67 02	67 02	"	67 02	"	2.3606	"	2.3606
5	z	+13	131	21 23	77 21	58 25	76 27	20 51	65 18	1.6262	4.1508	4.4579
6	s	$-\frac{1}{5}2$	110.5	7 14	70 16	19 18	70 08	6 47	69 03	0.3504	2.7672	2.7893

Langbanit.

Hexagonal-holoedrisch.

$c = 1.6437$	$\lg c = 021582$	$\lg a_o = 002274$	$\lg p_o = 003973$	$a_o = 1.0538$	$p_o = 1.0958$	(G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d = $\operatorname{tg} \varrho$
1	c	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	n	∞o	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	l	2∞	2130	19 06	"	"	"	19 06	70 53	0.3464	"	"
5	e	$\frac{1}{2}o$	1012	0 00	28 43	0 00	28 43	0 00	28 43	o	0.5479	0.5479
6	f	10	1011	"	47 37	"	47 37	"	47 37	"	1.0957	1.0957
7	g	20	2021	"	65 28	"	65 28	"	65 28	"	2.1914	2.1914
8	p	$\frac{1}{2}$	1122	30 00	43 30	25 23	39 25	20 08	36 35	0.4744	0.8218	0.9489
9	o	1	1121	"	62 13	43 30	58 41	26 15	50 00	0.9489	1.6435	1.8978
10	d	2	2241	"	75 14	62 13	73 05	28 55	56 52	1.8978	3.2871	3.7956
11	i	$1\frac{1}{2}$	2132	19 06	55 24	55 23	53 52	15 38	51 03	0.4744	1.3696	1.4495
12	h	41	4151	10 53	78 44	43 30	78 32	10 41	74 23	0.9489	4.9305	5.0211

Langit.

Rhomblisch.

a = 0.7879	lga = 989647	lga _o = 027188	lgp _o = 972812	a _o = 1.8702	p _o = 0.5347
c = 0.4213	lgc = 962459	lgb _o = 037541	lgq _o = 962459	b _o = 2.3736	q _o = 0.4213

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	a	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	∞∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	c	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	e	∞	110	51 46	"	"	90 00	51 46	38 14	1.2692	∞	"
5	f	10	101	90 00	28 08	28 08	0 00	28 08	0 00	0.5347	0	0.5347

Lansfordit.

Triklin.

p _o = 1.0259	$\lambda = 84^\circ 06$	a = 0.5493	$\alpha = 95^\circ 22$	x _o = 0.1770	d = 0.2047
q _o = 0.5570	$\mu = 79^\circ 28$	b = 1	$\beta = 100^\circ 15$	y _o = 0.1028	$\delta = 59^\circ 51$
r _o = 1	$\nu = 86^\circ 31$	c = 0.5655	$\gamma = 92^\circ 28$	h = 0.9788	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	0	001	59° 51	11° 48	10° 15	5° 59	10° 11	5° 54	0.1808	0.1050	0.2091
2	b	∞∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	h	∞5	150	19 47	"	90 00	"	19 47	70 13	0.3596	"	"
4	m	∞	110	58 50	"	"	"	58 50	31 10	1.6535	"	"
5	k	$\frac{3\infty}{\infty}$	310	97 03	"	"	90 00	82 57	7 03	8.0822	"	"
6	M	$\frac{\infty\infty}{\infty}$	110	115 47	"	"	"	64 13	25 47	2.0700	"	"
7	l	∞7	170	165 03	"	"	"	14 56	75 03	0.2669	"	"
8	d	02	021	8 16	51 28	10 15	51 11	6 28	50 44	0.1808	1.2431	1.2562
9	e	02	021	170 04	46 22	"	45 56	7 10	45 28	"	1.0330	1.0488
10	f	20	201	90 40	62 23	62 23	1 16	62 22	0 35	1.9114	0.0223	1.9116
11	P	1	111	58 59	55 04	50 49	36 25	44 38	24 59	1.2270	0.7377	1.4317
12	p	11	111	108 04	52 14	"	21 49	48 43	14 11	"	0.4004	1.2906
13	y	11	111	54 48	46 38	40 52	31 24	36 27	24 46	0.8653	0.6104	1.0589
14	n	1	111	121 22	45 23	"	27 49	37 25	21 45	"	0.5276	1.0135
15	e	13	131	152 33	61 57	"	59 01	24 00	51 33	"	1.6658	1.8771
16	o	$\frac{1}{2}$	112	121 41	21 54	18 53	11 56	18 31	11 18	0.3422	0.2112	0.4022
17	x	$\frac{1}{2}$	132	20 16	44 39	"	42 49	14 05	41 14	"	0.9267	0.9879
18	π	$\frac{1}{2}$	152	165 46	54 18	"	53 27	11 31	51 55	"	1.3494	1.3921

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
19	r	$\frac{1}{2} \frac{3}{2}$	132	135° 31'	45° 08'	35° 08'	35° 37'	29° 46'	30° 22'	0·7039	0·7166	1·0045
20	s	$\frac{1}{2} \frac{3}{2}$	172	159 13	63 15	"	61 40	18 28	56 36	"	1·8548	1·9839
21	q	$\frac{3}{2} \frac{1}{2}$	312	92 45	60 17	60 15'	4 48'	60 10	2 30	1·7500	0·0841	1·7521
22	z	$\frac{3}{2} \frac{1}{2}$	312	78 02'	54 50	54 14	16 23'	53 06	9 45	1·3884	0·2941	1·4192
23	w	$\frac{5}{2} \frac{1}{2}$	5·15·1	31 15	84 08	78 48	83 09	31 04	58 15'	5·0499	8·3224	9·7346
24	r	$\frac{10}{11} \frac{12}{11}$	10·12·11	111 34'	50 35'	48 32'	24 06'	45 56	16 30'	1·1319	0·4476	1·2172

Lanthanit.

Rhombisch.

$a = 0·9528$	$\lg a = 997900$	$\lg a_0 = 002365$	$\lg p_0 = 997635$	$a_0 = 1·0560$	$p_0 = 0·9470$
$c = 0·9023$	$\lg c = 995535$	$\lg b_0 = 004465$	$\lg q_0 = 995535$	$b_0 = 1·1083$	$q_0 = 0·9023$

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	∞	100	90° 00	90 00	90 00	"	90 00	"	∞	"	∞
3	m	∞	110	46 23	"	"	90 00	46 23	43 37	1·0495	∞	"
4	o	1	111	"	52 36	43 26'	42 03'	35 06'	33 14	0·9470	0·9023	1·3080

Laumontit.

Monoklin.

$a = 1·1451$	$\lg a = 005885$	$\lg a_0 = 998656$	$\lg p_0 = 001344$	$a_0 = 0·9695$	$p_0 = 1·0314$
$c = 1·1811$	$\lg c = 007229$	$\lg b_0 = 992771$	$\lg q_0 = 004176$	$b_0 = 0·8467$	$q_0 = 1·1009$
$\mu = \begin{cases} 180 \\ \beta \end{cases} 68° 46'$	$\lg h = \begin{cases} 996947 \\ \lg \sin \mu \end{cases}$	$\lg e = \begin{cases} 955891 \\ \lg \cos \mu \end{cases}$	$\lg \frac{p_0}{q_0} = 997168$	$h = 0·9321$	$e = 0·3622$

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	x	0	001	90° 00	21° 14	21° 14	0° 00	21° 14	0° 00	0·3885	0	0·3885
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	43 08	"	"	90 00	43 08	46 52	0·3969	∞	"
5	d	+10	101	90 00	56 13'	56 13'	0 00	56 13'	0 00	1·4950	0	1·4950
6	e	-10	101	90 00	35 40'	35 40'	"	35 40'	"	0·7179	"	0·7179
7	f	-30	301	"	71 09'	71 09'	"	71 09'	"	2·9309	"	2·9309
8	r	+ $\frac{1}{2}$	112	57 55	48 01'	43 17	30 34	39 02'	23 16	0·9418	0·5905	1·1117
9	u	- $\frac{1}{2}$	112	15 35	31 30'	9 21	"	8 03	30 14	0·1647	"	0·6131

Laurionit.

Rhombisch.

$a = 0.7328$	$\lg a = 986499$	$\lg a_0 = 994513$	$\lg p_0 = 005487$	$a_0 = 0.8813$	$p_0 = 1.1347$
$c = 0.8315$	$\lg c = 991986$	$\lg b_0 = 008014$	$\lg q_0 = 991986$	$b_0 = 1.2027$	$q_0 = 0.8315$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\operatorname{tg} \varrho$
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	l	2∞	210	69 52'	"	"	90 00	69 52'	20 07'	2.7292'	∞	"
5	m	∞	110	53 46	"	"	"	53 46	36 14	1.3646	"	"
6	n	∞2	120	34 18'	"	"	"	34 18'	55 41'	0.6823	"	"
7	d	0½	012	0 00	22 34'	0 00	22 34'	0 00	22 34'	0	0.4157'	0.4157'

Laurit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\operatorname{tg} \varrho$
1	c	{ 0 0∞	{ 001 010	{ — 0°00	{ 0°00 90 00	{ 0°00 "	{ 0°00 90 00	{ 0°00 "	{ 0°00 90 00	{ 0 "	{ 0 ∞	{ 0 ∞
2	e	{ 0½ 02 ∞2	{ 012 021 120	{ " " 26 34	{ 26 34 63 26 90 00	{ " " 90 00	{ 26 34 63 26 90 00	{ " " 26 34	{ 26 34 63 26 "	{ " " 0.5000	{ 0.5000 2.0000 ∞	{ 0.5000 2.0000 ∞
3	m	{ ⅓ 13	{ 113 131	{ 45 00 18 26	{ 25 14' 72 27	{ 18 26 45 00	{ 18 26 71 34	{ 17 33 "	{ 17 33 64 45'	{ 0.3333 1.0000	{ 0.3333 3.0000	{ 0.4714 3.1623
4	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1.0000	1.4142

Lautarit.

Monoklin.

$a = 0.6331$	$\lg a = 980147$	$\lg a_0 = 999110$	$\lg p_0 = 000890$	$a_0 = 0.9797$	$p_0 = 1.0207$
$c = 0.6462$	$\lg c = 981037$	$\lg b_0 = 018963$	$\lg q_0 = 979241$	$b_0 = 1.5475$	$q_0 = 0.6200$
$\mu = \left. \begin{array}{l} 73^\circ 38' \\ 180 - \beta \end{array} \right\}$	$\left. \begin{array}{l} \lg h = \\ \lg \sin \mu \end{array} \right\} 998204$	$\left. \begin{array}{l} \lg e = \\ \lg \cos \mu \end{array} \right\} 944992$	$\lg \frac{p_0}{q_0} = 021649$	$h = 0.9595$	$e = 0.2818$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \varrho$
1	c	0	001	90° 00	16° 22	16° 22	0° 00	16° 22	0° 00	0.2937	0	0.2937
2	b	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	m	∞	110	58 43'	"	90 00	"	58 43'	31 16'	1.6462	"	"
4	l	∞2	120	39 27'	"	"	"	39 27'	50 32'	0.8231	"	"
5	q	01	011	24 26'	35 22	16 22	32 52	13 51'	31 48'	0.2937	0.6462	0.7098
6	r	+10	101	90 00	53 37'	53 37'	0 00	53 37'	0 00	1.3575	0	1.3575
7	n	-10	101	90 00	37 58'	37 58'	"	37 58'	"	0.7805	"	0.7805

Lavenit.

Monoklin.

$a = 1.0963$	$\lg a = 003993$	$\lg a_0 = 018556$	$\lg p_0 = 981444$	$a_0 = 1.5331$	$p_0 = 0.6523$
$c = 0.7151$	$\lg c = 985437$	$\lg b_0 = 014563$	$\lg q_0 = 982652$	$b_0 = 1.3984$	$q_0 = 0.6707$
$\mu = \left. \begin{array}{l} 69^\circ 42' \\ 180 - \beta \end{array} \right\}$	$\left. \begin{array}{l} \lg h = \\ \lg \sin \mu \end{array} \right\} 997215$	$\left. \begin{array}{l} \lg e = \\ \lg \cos \mu \end{array} \right\} 954025$	$\lg \frac{p_0}{q_0} = 998792$	$h = 0.9379$	$e = 0.3469$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \varrho$
1	b	∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	m	∞	110	44 12	"	"	90 00	44 12	45 48	0.9726	∞	"
4	n	2∞	210	62 47'	"	"	"	62 47'	27 12'	1.9451	"	"
5	l	3∞	310	71 05	"	"	"	71 05	18 55	2.9176	"	"
6	r	01	011	27 21	38 50'	20 18	35 34	16 45	33 51	0.3699	0.7151	0.8051
7	q	+10	101	90 00	46 49	46 49	0 00	46 49	0 00	1.0653	0	1.0653
8	e	1	111	56 08	52 04	"	35 34	40 54'	26 04'	"	0.7151	1.2831

Lawsonit.

Rhombisch.

a = 0.6652	lg a = 982295	lg a ₀ = 995460	lg p ₀ = 004540	a ₀ = 0.9007	p ₀ = 1.1102
c = 0.7385	lg c = 986835	lg b ₀ = 013165	lg q ₀ = 986835	b ₀ = 1.3541	q ₀ = 0.7385

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d = tg ρ
1	o	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	o∞	010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
	m	∞	110	56 22	”	90 00	”	56 22	33 38	1.5033	”	”
3	d	01	011	0 00	36 27	0 00	36 27	0 00	36 27	o	0.7385	0.7385
4	e	04	041	”	71 18	”	71 18	”	71 18	”	2.9540	2.9540

Lazulith.

Monoklin.

a = 0.9750	lg a = 998900	lg a ₀ = 977196	lg p ₀ = 022804	a ₀ = 0.5915	p ₀ = 1.6906
c = 1.6483	lg c = 021704	lg b ₀ = 978296	lg q ₀ = 021700	b ₀ = 0.6067	q ₀ = 1.6482
μ = } 180 - β } 89°14	lg h = } lg sin μ } 999996	lg e = } lg cos μ } 812647	lg p ₀ = 001104	h = 0.9999	e = 0.0134

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x' (Prismen) (x : y)	y'	d' = tg ρ
1	c	o	001	90°00	0°46	0°46	0°00	0°46	0°00	0.0134	o	0.0134
2	b	o∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞0	100	90 00	”	90 00	0 00	90 00	0 00	∞	o	”
4	m	∞	110	45 44	”	”	90 00	45 44	44 16	1.0257	∞	”
5	u	0½	012	0 56	39 30	0 46	39 29'	0 35'	39 29'	0.0134	0.8241	0.8243
6	d	01	011	0 28	58 45'	”	58 45'	0 24	58 45	”	1.6483	1.6483
7	t	+10	101	90 00	59 36	59 36	0 00	59 36	0 00	1.7041	o	1.7041
8	y	+⅓0	103	”	29 59	29 59	”	29 59	”	0.5769	”	0.5769
9	s	-10	101	90 00	59 12	59 12	”	59 12	”	1.6773	”	1.6773
10	r	+2	221	45 50'	78 04	73 35	73 07'	44 35	42 58	3.3949	3.2966	4.7322
11	p	+1	111	45 57	67 08	59 36	58 45'	41 28'	39 50	1.7041	1.6483	2.3709
12	z	+½	112	46 10'	49 58	40 39'	39 29'	33 32	32 01'	0.8588	0.8241	1.1904
13	x	+⅓	113	46 24	38 33	29 59	28 47	26 49'	25 27	0.5769	0.5494	0.7967
14	v	-⅓	113	45 02	37 52	28 49	”	25 44'	25 42'	0.5501	”	0.7775
15	e	-1	111	45 30	66 58	59 12	58 45'	41 01'	40 10	1.6773	1.6483	2.3517
16	q	+½	212	64 11'	62 09	59 36	39 29'	52 45	22 38'	1.7041	0.8241	1.8929

Leadhillit.

Monoklin.

a = 0.8738	lg a = 994141	lg a _o = 989695	lg p _o = 010305	a _o = 0.7888	p _o = 1.2678
c = 1.1078	lg c = 004446	lg b _o = 995554	lg q _o = 004446	b _o = 0.9027	q _o = 1.1078
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 89^\circ 48$	lg h = $\left. \begin{matrix} \\ \\ \end{matrix} \right\} 0$	lg e = $\left. \begin{matrix} \\ \\ \end{matrix} \right\} 754291$	lg $\frac{p_o}{q_o}$ = 005859	h = 1	e = 0.0035

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	o	001	90°00	0°12	0°12	0°00	0°12	0°00	0.0035	o	0.0035
2	b	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	d	2∞	210	66 24	"	"	90 00	66 24	23 36	2.2888	∞	"
5	F	2∞	320	59 47	"	"	"	59 47	30 13	1.7166	"	"
6	l	2∞	110	48 51	"	"	"	48 51	41 09	1.1444	"	"
7	L	∞	230	37 20	"	"	"	37 20	52 39	0.7629	"	"
8	m	∞2	120	29 47	"	"	"	29 47	60 13	0.5722	"	"
9	β	o 1/2	012	0 21	28 59	0 12	28 59	0 10	28 59	0.0035	0.5539	0.5539
10	g	01	011	0 11	47 55	"	47 55	0 08	47 55	"	1.1078	1.1078
11	h	0 3/2	032	0 07	58 57	"	58 57	0 06	58 57	"	1.6617	1.6617
12	y	+40	401	90 00	78 51	78 51	0 00	78 51	0 00	5.0746	o	5.0746
13	u	+20	201	"	68 30	68 30	"	68 30	"	2.5391	"	2.5391
14	z	+30	302	"	62 18	62 18	"	62 18	"	1.9052	"	1.9052
15	w	+10	101	"	51 49	51 49	"	51 49	"	1.2713	"	1.2713
16	i	+30	203	"	40 19	40 19	"	40 19	"	0.8487	"	0.8487
17	λ	+10	102	"	32 31	32 31	"	32 31	"	0.6374	"	0.6374
18	f	-10	101	90 00	51 39	51 39	"	51 39	"	1.2643	"	1.2643
19	e	-20	201	"	68 27	68 27	"	68 27	"	2.5321	"	2.5321
20	k	+1	111	48 56	59 20	51 49	47 55	40 25	34 24	1.2713	1.1078	1.6862
21	p	-1	111	48 46	59 15	51 39	"	40 16	34 30	1.2643	"	1.6809
22	x	+12	121	29 51	68 37	51 49	65 42	27 36	53 52	1.2713	2.2156	2.5544
23	s	+1 1/2	212	66 27	54 12	"	28 59	48 02	18 54	"	0.5539	1.3867
24	q	-1 1/2	212	66 20	54 04	51 39	"	47 53	18 58	1.2643	"	1.3803
25	o	-1 3/2	232	37 16	64 24	"	58 57	33 06	45 52	"	1.6617	2.0880
26	r	-12	121	29 42	68 35	"	65 42	27 29	53 58	"	2.2156	2.5509
27	n	-1 1/2	272	18 03	76 13	"	75 32	17 31	67 25	"	3.8773	4.0782
28	γ	+31	311	73 46	75 50	75 17	47 55	68 35	15 43	3.8069	1.1078	3.9648
29	ζ	+21	211	66 26	70 09	68 30	"	59 33	22 05	2.5391	"	2.7702
30	t	+1 1/2	122	29 55	51 57	32 31	"	23 07	43 03	0.6374	"	1.2781
31	v	-1 1/2	122	29 38	51 53	32 13	"	22 54	43 08	0.6304	"	1.2746
32	?σ	-1 1/2	233	37 13	54 17	40 05	"	29 25	40 17	0.8417	"	1.3913
33	ω	+2 1/2	412	77 41	68 57	68 30	28 59	65 46	11 28	2.5391	0.5539	2.5988

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
34	ψ	$-2\frac{1}{2}$	412	$77^\circ 39'$	$68^\circ 54'$	$68^\circ 27'$	$28^\circ 59'$	$65^\circ 42'$	$11^\circ 30'$	2'5321	0'5539	2'5920
35	τ	$-\frac{4}{2}$	4'14'7	$18^\circ 01'$	$66^\circ 46'$	$35^\circ 47'$	$65^\circ 42'$	$16^\circ 31'$	$60^\circ 54'$	0'7209	2'2156	2.3299
36	δ	$+\frac{1}{2}\frac{1}{4}$	214	$66^\circ 31'$	$34^\circ 48'$	$32^\circ 31'$	$15^\circ 29'$	$31^\circ 34'$	$13^\circ 09'$	0'6374	0'2769	0'6950
37	μ	$-\frac{1}{2}\frac{1}{4}$	214	$66^\circ 17'$	$34^\circ 33'$	$32^\circ 13'$	"	$31^\circ 17'$	$13^\circ 11'$	0'6304	"	0'6886
38	β	$+\frac{1}{3}\frac{2}{3}$	123	$29^\circ 59'$	$40^\circ 27'$	$23^\circ 04'$	$36^\circ 27'$	$18^\circ 55'$	$34^\circ 11'$	0'4261	0'7385	0'8527
39	λ	$-\frac{1}{3}\frac{1}{6}$	216	$66^\circ 14'$	$24^\circ 36'$	$22^\circ 44'$	$10^\circ 27'$	$22^\circ 24'$	$9^\circ 40'$	0'4191	0'1846	0'4580

Lecontit.

Rhombisch.

$a = 0.7848$	$\lg a = 989476$	$\lg a_0 = 970958$	$\lg p_0 = 029042$	$a_0 = 0.5124$	$p_0 = 1.9517$
$c = 1.5317$	$\lg c = 018518$	$\lg b_0 = 981482$	$\lg q_0 = 018518$	$b_0 = 0.6529$	$q_0 = 1.5317$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tge
1	c	0	001	—	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	0	0	0
2	m	∞	110	$51^\circ 52'$	$90^\circ 00'$	$90^\circ 00'$	$90^\circ 00'$	$51^\circ 52'$	$38^\circ 07'$	1'2742	∞	∞
3	g	$\infty 2$	120	$32^\circ 30'$	"	"	"	$32^\circ 30'$	$57^\circ 30'$	0'6371	"	"
4	d	$\frac{1}{2}0$	104	$90^\circ 00'$	$26^\circ 01'$	$26^\circ 01'$	$0^\circ 00'$	$26^\circ 01'$	$0^\circ 00'$	0'4879	0	0'4879
5	e	10	101	"	$62^\circ 53'$	$62^\circ 53'$	"	$62^\circ 53'$	"	1'9517	"	1'9517

Leucit.

Regulär. (?)

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tge
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	— $0^\circ 00'$	$0^\circ 00'$ $90^\circ 00'$	$0^\circ 00'$ "	$0^\circ 00'$ $90^\circ 00'$	$0^\circ 00'$ "	$0^\circ 00'$ $90^\circ 00'$	0 "	0 ∞	0 ∞
2	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	" $45^\circ 00'$	$45^\circ 00'$ $90^\circ 00'$	" $90^\circ 00'$	$45^\circ 00'$ $90^\circ 00'$	" $45^\circ 00'$	$45^\circ 00'$ "	" 1'0000	1'0000 ∞	1'0000 ∞
3	q	$\left\{ \begin{matrix} \frac{1}{2} \\ 12 \end{matrix} \right.$	$\left\{ \begin{matrix} 112 \\ 121 \end{matrix} \right.$	" $26^\circ 34'$	$35^\circ 16'$ $65^\circ 54'$	$26^\circ 34'$ $45^\circ 00'$	$26^\circ 34'$ $63^\circ 26'$	$24^\circ 05'$ "	$24^\circ 05'$ $54^\circ 44'$	0'5000 1'0000	0'5000 2'0000	0'7071 2'2360

Leukophan.

Rhombisch. Sphenoidisch-hemiedrisch.

a = 0.9930	lg a = 999734	lg a ₀ = 0.16984	lg p ₀ = 983016	a ₀ = 1.4786	p ₀ = 0.6763
c = 0.6722	lg c = 982750	lg b ₀ = 0.17250	lg q ₀ = 982750	b ₀ = 1.4877	q ₀ = 0.6722

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	∞
2	b	0∞	010	0°00	90 00	∞	90 00	∞	90 00	∞	∞	∞
3	a	∞0	100	90 00	∞	90 00	0 00	90 00	0 00	∞	0	∞
4	n	3∞	310	71 40	∞	∞	90 00	71 40	18 20	3'0184	∞	∞
5	m	∞	110	45 10'	∞	∞	∞	45 10'	44 49'	1'0061	∞	∞
6	z	0 $\frac{3}{8}$	056	0 00	29 15'	0 00	29 15'	0 00	29 15'	0	0'5601	0'5601
7	y	0 $\frac{3}{4}$	054	∞	40 02'	∞	40 02'	∞	40 02'	∞	0'8402	0'8402
8	x	02	021	∞	53 21'	∞	53 21'	∞	53 21'	∞	1'3444	1'3444
9	l	$\frac{1}{6}$ 0	106	90 00	6 26	6 26	0 00	6 26	0 00	0'1127	0	0'1127
10	k	$\frac{1}{4}$ 0	105	∞	7 42	7 42	∞	7 42	∞	0'1352	∞	0'1352
11	i	$\frac{1}{4}$ 0	104	∞	9 36	9 36	∞	9 36	∞	0'1691	∞	0'1691
12	h	$\frac{1}{3}$ 0	103	∞	12 42'	12 42'	∞	12 42'	∞	0'2254	∞	0'2254
13	e	10	101	∞	34 04'	34 04'	∞	34 04'	∞	0'6763	∞	0'6763
14	f	20	201	∞	53 31'	53 31'	∞	53 31'	∞	1'3526	∞	1'3526
15	g	40	401	∞	69 43	69 43	∞	69 43	∞	2'7053	∞	2'7053
16	α	$\frac{1}{8}$ 0	119	45 10'	6 03	4 18	4 16'	4 17	4 15'	0'0751	0'0747	0'1060
17	β	$\frac{1}{8}$ 0	118	∞	6 48	4 50	4 48	4 49	4 47	0'0845	0'0840	0'1192
18	γ	$\frac{1}{7}$ 0	117	∞	7 45'	5 31	5 29	5 29'	5 27'	0'0966	0'0960	0'1362
19	δ	$\frac{1}{6}$ 0	116	∞	9 02	6 26	6 23'	6 23'	6 21	0'1127	0'1120	0'1589
20	ϵ	$\frac{1}{6}$ 0	225	∞	20 52'	15 08'	15 03	14 38'	14 33	0'2705	0'2689	0'3814
21	ζ	$\frac{1}{6}$ 0	223	∞	32 26'	24 16	24 08'	22 22	22 13'	0'4509	0'4481	0'6357
22	v	$\frac{4}{3}$ 0	445	∞	37 20'	28 25	28 16	25 29	25 19	0'5410	0'5377	0'7629
23	p	1	111	∞	43 38'	34 04'	33 54'	29 18'	29 06'	0'6763	0'6715	0'9536
24	q	2	221	∞	62 20	53 31'	53 21'	38 55	38 38	1'3527	1'3444	1'9071
25	λ	$\frac{1}{2}$	212	63 34'	37 03'	34 04'	18 34'	32 40	15 33'	0'6763	0'3361	0'7552
26	μ	$\frac{1}{2}$	122	26 42'	36 57'	18 41'	33 54'	15 40'	32 29'	0'3381	0'6715	0'7525
27	A	$\frac{3}{8}$ $\frac{1}{2}$	8'7'12	48 59'	30 51'	24 16	21 14'	22 46'	19 40	0'4509	0'3921	0'5975

Libethenit.

Rhombisch.

$a = 0.9601$	$\lg a = 998232$	$\lg a_0 = 013604$	$\lg p_0 = 986396$	$a_0 = 1.3679$	$p_0 = 0.7311$
$c = 0.7019$	$\lg c = 984628$	$\lg b_0 = 015372$	$\lg q_0 = 984628$	$b_0 = 1.4247$	$q_0 = 0.7019$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	c	∞0	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"
4	m	∞	110	46 10	"	"	90 00	46 10	43 50	1'0415	∞	"
5	t	2∞	210	64 21	"	"	"	64 21	25 38	2'0831	"	"
6	δ	3∞	310	72 15	"	"	"	72 15	17 45	3'1246	"	"
7	e	01	011	o 00	35 04	o 00	"	o 00	35 04	o	0.7019	0.7019
8	s	I	111	46 10	45 23	36 10	"	30 53	29 32	0.7311	"	1.0135

Lievrit.

Rhombisch.

$a = 0.6665$	$\lg a = 982380$	$\lg a_0 = 017769$	$\lg p_0 = 982231$	$a_0 = 1.5055$	$p_0 = 0.6642$
$c = 0.4427$	$\lg c = 964611$	$\lg b_0 = 035389$	$\lg q_0 = 964611$	$b_0 = 2.2589$	$q_0 = 0.4427$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"
4	η	$\frac{2}{3}\infty$	730	74 03	"	"	90 00	74 03	15 56	3.5009	∞	"
5	h	$\frac{2}{3}\infty$	210	71 34	"	"	"	71 34	18 26	3.0007	"	"
6	θ	$\frac{2}{3}\infty$	530	68 12	"	"	"	68 12	21 48	2.5006	"	"
7	μ	$\frac{5}{4}\infty$	540	61 56	"	"	"	61 56	28 04	1.8755	"	"
8	M	$\frac{5}{4}\infty$	110	56 19	"	"	"	56 19	33 41	1.5004	"	"
9	ν	$\frac{4}{3}\infty$	340	48 22	"	"	"	48 22	41 37	1.1253	"	"
10	r	$\frac{3}{2}\infty$	230	45 00	"	"	"	45 00	44 59	1.0002	"	"
11	N	$\frac{1}{7}\infty$	7.11.0	41 11	"	"	"	41 11	48 48	0.8752	"	"
12	s	∞2	120	36 52	"	"	"	36 52	53 07	0.7502	"	"
13	t	∞3	130	26 34	"	"	"	26 34	63 26	0.5001	"	"
14	d	∞4	140	20 33	"	"	"	20 33	69 26	0.3751	"	"
15	n	$0\frac{1}{2}$	012	o 00	12 29	o 00	12 29	o 00	12 29	o	0.2213	0.2213

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
16	φ	01	011	0°00	23°52'	0°00	23°52'	0°00	23°52'	0	0'4427	0'4427
17	e	02	021	"	41 31'	"	41 31'	"	41 31'	"	0'8854	0'8854
18	\varkappa	$\frac{1}{2}0$	106	90 00	6 19	6 19	0 00	6 19	0 00	0'1107	0	0'1107
19	P	10	101	"	33 35'	33 35'	"	33 35'	"	0'6642	"	0'6642
20	w	30	301	"	63 21	63 21	"	63 21	"	1'9926'	"	1'9926'
21	o	1	111	56 19	38 36	33 35'	23 53	31 16'	20 14'	0'6642	0'4427	0'7982
22	x	21	211	71 34	54 28	53 01'	"	50 32'	14 54'	1'3284'	"	1'4002
23	y	31	311	77 28'	63 54	63 21	"	61 14'	11 14	1'9926'	"	2'0412
24	k	41	411	80 32'	69 38	69 22'	"	67 37'	8 52	2'6569	"	2'6935
25	i	12	121	36 52'	47 54	33 35'	41 31'	26 26'	36 24'	0'6642	0'8854	1'1068
26	u	13	131	26 34	56 02'	"	53 01'	21 46'	47 53'	"	1'3281	1'4849
27	l	42	421	71 34	70 21	69 22'	41 31'	63 18.	17 19'	2'6569	0'8854	2'8005

Linarit.

Monoklin.

a = 1'7352	lg a = 023935	lga ₀ = 032048	lg p ₀ = 967952	a ₀ = 2'0916	p ₀ = 0'4781
c = 0'8296	lg c = 991887	lgb ₀ = 008113	lg q ₀ = 990344	b ₀ = 1'2054	q ₀ = 0'8006
$\mu = \left. \begin{matrix} \\ \beta \end{matrix} \right\} 74^\circ 49'$	lg h = 998457	lge = 941815	lg $\frac{p_0}{q_0}$ = 977608	h = 0'9651	e = 0'2619

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	s	0	001	90°00	15°11	15°11	0°00	15°11	0°00	0'2714	0	0'2714
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	l	2 ∞	210	50 03'	"	"	90 00	50 03'	39 56'	1'1943	∞	"
5	m	∞	110	30 50'	"	"	"	30 50'	59 09'	0'5971	"	"
6	α	$0\frac{1}{3}$	0'1'13	76 46	15 34'	15 11	3 34	15 09	3 31'	0'2714	0'0638	0'2788
7	δ	$0\frac{1}{5}$	019	71 14'	15 59'	"	5 16	15 07'	5 05	"	0'0921'	0'2866
8	e	01	011	18 07	41 07'	"	39 41	11 48	38 41	"	0'8296	0'8729
9	σ	02	021	9 17'	59 15'	"	58 55'	7 58'	58 01	"	1'6592	1'6813
10	p	$+\frac{60}{20}$	601	90 00	72 52	72 52	0 00	72 52	0 00	3'2437	0	3'2437
11	β	$+\frac{70}{20}$	705	"	43 58'	43 58'	"	43 58'	"	0'9649	"	0'9649
12	π	$+\frac{30}{20}$	403	"	42 59	42 59	"	42 59	"	0'9319	"	0'9319
13	u	$+\frac{10}{20}$	101	"	37 29	37 29	"	37 29	"	0'7667'	"	0'7667'
14	ϱ	$+\frac{50}{20}$	19'0'20	"	36 34'	36 34'	"	36 34'	"	0'7420	"	0'7420
15	x	$+\frac{10}{20}$	102	"	27 26	27 26	"	27 26	"	0'5190	"	0'5190
16	t	$-\frac{10}{20}$	106	"	10 41'	10 41'	"	10 41'	"	0'1888	"	0'1888
17	o	$-\frac{10}{20}$	103	"	6 04	6 04	"	6 04	"	0'0261	"	0'0261
18	d	$-\frac{30}{20}$	708	90 00	9 12'	9 12'	"	9 12'	"	0'1621'	"	0.1621'

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
19	c	— 10	101	90° 00	12° 37'	12° 37'	0° 00	12° 37'	0° 00	0·2240	0° 00	0·2240
20	y	— 20	201	"	35 44	35 44	"	35 44	"	0·7194	"	0·7194
21	η	— 60	601	"	69 41	69 41	"	69 41	"	2·7010	"	2·7010
22	g	+ 1	111	42 45	48 29	37 29	39 41	30 33	33 21'	0·7667'	0·8296	1·1297
23	z	+ $\frac{1}{7}$	117	70 54	19 54'	18 53'	6 45'	18 46	6 24	0·3421'	0·1185	0·3621
24	γ	+ $\frac{1}{10}$	1·1·10	75 30'	18 20'	17 48'	4 44'	17 44'	4 31'	0·3210	0·0829'	0·3315
25	q	— $\frac{1}{2}$	112	3 16'	22 34'	1 21'	22 32'	1 15'	22 31'	0·0237	0·4148	0·4155
26	r	— 1	111	15 07	40 44'	12 37'	39 41'	9 47'	38 59'	0·2240	0·8296	0·8593
27	n	+ 12	121	24 48	28 19	37 29	58 55'	21 35'	52 47'	0·7667'	1·6592	1·8278
28	w	+ $\frac{1}{2}$	212	28 22'	25 14'	12 37'	22 32'	11 41'	22 02'	0·2240	0·4148	0·4714
29	v	+ $\frac{4}{7}$ $\frac{1}{14}$	8·1·14	83 54	29 08'	29 00'	3 23'	28 58'	2 58'	0·5544'	0·0592'	0·5576

Linneit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	$\left\{ \begin{array}{l} 0 \\ 0\infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} — \\ 0° 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1·0000	1·0000	1·4142
3	y	$\left\{ \begin{array}{l} 1 \\ 2 \\ 3 \\ 4 \\ 2 \end{array} \right.$	$\left\{ \begin{array}{l} 234 \\ 243 \\ 342 \end{array} \right.$	$\left\{ \begin{array}{l} 33 41' \\ 26 34 \\ 36 52 \end{array} \right.$	$\left\{ \begin{array}{l} 42 02 \\ 56 08' \\ 68 12 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 33 41' \\ 56 18' \end{array} \right.$	$\left\{ \begin{array}{l} 36 52 \\ 53 08 \\ 63 26 \end{array} \right.$	$\left\{ \begin{array}{l} 21 48 \\ " \\ 33 51 \end{array} \right.$	$\left\{ \begin{array}{l} 33 51 \\ 47 58 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0·5000 \\ 0·6667 \\ 1·5000 \end{array} \right.$	$\left\{ \begin{array}{l} 0·7500 \\ 1·3333 \\ 2·0000 \end{array} \right.$	$\left\{ \begin{array}{l} 0·9014 \\ 1·4907 \\ 2·5000 \end{array} \right.$

Liroconit.

Monoklin.

a = 1·6809	lg a = 022554	lg a ₀ = 010530	lg p ₀ = 989470	a ₀ = 1·2744	p ₀ = 0·7847
c = 1·3190	lg c = 012024	lg b ₀ = 987976	lg q ₀ = 012010	b ₀ = 0·7582	q ₀ = 1·3186
$\mu = \left. \begin{array}{l} 88° 33 \\ 180 - \beta \end{array} \right\}$	lg h = $\left. \begin{array}{l} 999986 \\ \lg \sin \mu \end{array} \right\}$	lg e = $\left. \begin{array}{l} 840320 \\ \lg \cos \mu \end{array} \right\}$	lg $\frac{p_0}{q_0}$ = 977460	h = 0·9997	e = 0·0253

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	o	∞	110	30° 45'	90° 00	90° 00	90° 00	30° 45'	59° 14'	0·5951	∞	∞
2	m	01	011	1 06	52 50	1 27	52 50	0 52'	52 49'	0·0253	1·3190	1·3192

Löllingit.

Rhombisch.

$a = 0.6689$	$lg a = 982536$	$lg a_0 = 973436$	$lg p_0 = 026564$	$a_0 = 0.5424$	$p_0 = 1.8435$
$c = 1.2331$	$lg c = 009100$	$lg b_0 = 990900$	$lg q_0 = 009100$	$b_0 = 1.2331$	$q_0 = 1.2331$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $tg \varrho$
1	a	0∞	010	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	0	∞	∞
2	m	∞	110	$56^\circ 13'$	"	$90^\circ 00'$	"	$56^\circ 13'$	$33^\circ 46'$	1.4950	"	"
3	u	$0\frac{1}{2}$	014	$0^\circ 00'$	$17^\circ 08'$	$0^\circ 00'$	$17^\circ 08'$	$0^\circ 00'$	$17^\circ 08'$	0	0.3083	0.3083
4	q	$0\frac{1}{3}$	013	"	$22^\circ 20'$	"	$22^\circ 20'$	"	$22^\circ 20'$	"	0.4110	0.4110
5	l	01	011	"	$50^\circ 57'$	"	$50^\circ 57'$	"	$50^\circ 57'$	"	1.2331	1.2331
6	e	10	101	$90^\circ 00'$	$61^\circ 31'$	$61^\circ 31'$	$0^\circ 00'$	$61^\circ 31'$	$0^\circ 00'$	1.8435	0	1.8435
7	α	$\frac{1}{2}$	112	$56^\circ 13'$	$47^\circ 57'$	$42^\circ 40'$	$31^\circ 39'$	$38^\circ 07'$	$24^\circ 23'$	0.9217	0.6165	1.1089

Löweit.

Tetragonal.

c	} = 1.304	$lg c = 011528$	$lg a_0 = 988472$	$a_0 = 0.7668$
p_0				

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $tg \varrho$
1	p	01	011	$0^\circ 00'$	$52^\circ 31'$	$0^\circ 00'$	$52^\circ 31'$	$0^\circ 00'$	$52^\circ 31'$	0	1.3040	1.3040

Ludlamit.

Monoklin.

$a = 2.2527$	$lg a = 035270$	$lg a_0 = 005560$	$lg p_0 = 994440$	$a_0 = 1.1366$	$p_0 = 0.8798$
$c = 1.9820$	$lg c = 029710$	$lg b_0 = 970290$	$lg q_0 = 028970$	$b_0 = 0.5045$	$q_0 = 1.9485$
$\mu = \left. \begin{matrix} 180 \\ \beta \end{matrix} \right\} 79^\circ 27'$	$lg h = \left. \begin{matrix} 999260 \\ lg \sin \mu \end{matrix} \right\}$	$lg e = \left. \begin{matrix} 926267 \\ lg \cos \mu \end{matrix} \right\}$	$lg \frac{p_0}{q_0} = 965470$	$h = 0.9831$	$e = 0.1831$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	c	0	001	$90^\circ 00'$	$10^\circ 33'$	$10^\circ 33'$	$0^\circ 00'$	$10^\circ 33'$	$0^\circ 00'$	0.1862	0	0.1862
2	a	∞	100	"	$90^\circ 00'$	$90^\circ 00'$	"	$90^\circ 00'$	"	∞	"	∞
3	m	∞	110	$24^\circ 18'$	"	"	$90^\circ 00'$	$24^\circ 18'$	$65^\circ 42'$	0.4515	∞	"
4	l	01	011	$5^\circ 22'$	$63^\circ 20'$	$10^\circ 33'$	$63^\circ 13'$	$4^\circ 48'$	$62^\circ 50'$	0.1862	1.9820	1.9907
5	t	$+20$	201	$90^\circ 00'$	$63^\circ 09'$	$63^\circ 09'$	$0^\circ 00'$	$63^\circ 09'$	$0^\circ 00'$	1.9760	0	1.9760
6	d	-10	101	$90^\circ 00'$	$35^\circ 19'$	$35^\circ 19'$	"	$35^\circ 19'$	"	0.7087	"	0.7087
7	k	-20	201	"	$58^\circ 03'$	$58^\circ 03'$	"	$58^\circ 03'$	"	1.6036	"	1.6036
8	p	$+1$	111	$28^\circ 37'$	$66^\circ 06'$	$47^\circ 14'$	$63^\circ 13'$	$25^\circ 58'$	$53^\circ 23'$	1.0811	1.9820	2.2577
9	r	$+\frac{1}{2}$	112	$32^\circ 36'$	$49^\circ 38'$	$32^\circ 22'$	$44^\circ 44'$	$24^\circ 14'$	$39^\circ 56'$	0.6337	0.9910	1.1763
10	q	-1	111	$19^\circ 40'$	$64^\circ 35'$	$35^\circ 19'$	$63^\circ 13'$	$17^\circ 42'$	$58^\circ 16'$	0.7087	1.9820	2.1049

Ludwigit.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 000524; \frac{p_0}{q_0} = 1.0121; \frac{a}{b} = 0.988$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tge
1	k	4∞	410	76° 07'	90° 00'	90° 00'	90° 00'	76° 07'	13° 52'	4.0485	∞	∞
2	l	3∞	310	71 46'	"	"	"	71 46'	18 13'	3.0364	"	"
3	m	∞	110	45 20'	"	"	"	45 20'	44 39'	1.0121	"	"
4	n	∞2	120	26 50'	"	"	"	26 50'	63 09'	0.5061	"	"

Lunnit.

Triklin.

$p_0 = 0.5430$	$\lambda = 90^\circ 29'$	$a = 2.8252$	$\alpha = 89^\circ 29'$	$x_0 = 0.0175$	$d = 0.0195$
$q_0 = 1.5339$	$\mu = 89^\circ 00'$	$b = 1$	$\beta = 91^\circ 00'$	$y_0 = 0.0084$	$\delta = 115^\circ 40'$
$r_0 = 1$	$\nu = 89^\circ 21'$	$c = 1.5339$	$\gamma = 90^\circ 39'$	$h = 0.9998$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
1	c	0	001	115° 34'	1° 07'	1° 00'	0° 29'	1° 00'	0° 29'	0.0175	0.0083	0.0195
2	b	∞∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	89 21	"	90 00	"	89 21	0 39	88.290	"	"
4	m	∞	110	19 25'	"	"	"	19 25'	70 34'	0.3526	"	"
5	n	$\frac{5}{4}\infty$	540	23 46	"	"	"	23 46	66 14	0.4403	"	"
6	l	$\frac{4}{3}\infty$	430	25 09	"	"	"	25 09	64 51	0.4695	"	"
7	L	$\frac{4}{3}\infty$	430	154 37	"	"	90 00	25 23	64 37	0.4745	"	"
8	N	$\frac{5}{4}\infty$	540	156 01'	"	"	"	23 58'	66 01'	0.4447	"	"
9	M	$\frac{4}{3}\infty$	110	160 26	"	"	"	19 34	70 26	0.3554	"	"
10	κ	$0\frac{4}{5}$	045	179 11	51 01'	1 00'	51 01	0 38	51 01	0.0175	1.2357	1.2358
11	z	$\frac{3}{2}0$	302	89 57	39 46	39 46	0 02'	39 46	0 02	0.8321	0.0007	0.8321
12	t	$\frac{1}{2}0$	101	90 14	29 16'	29 16'	0 08	29 16'	0 07	0.5606	0.0023	0.5606
13	q	$\frac{1}{2}0$	102	91 03	16 07'	16 07'	0 18	16 07'	0 17'	0.2890	0.0053	0.2891
14	τ	10	101	91 35	27 44	27 43'	0 50	27 43'	0 44	0.5256	0.0145	0.5258
15	ζ	$\frac{3}{2}0$	302	91 15'	38 34	38 33'	1 00	38 33'	0 47	0.7971	0.0175	0.7974
16	W	50	501	90 28	69 40	69 40	1 16	69 40	0 26'	2.6980	0.0221	2.6981
17	h	$1\frac{3}{4}$	434	26 01'	51 57'	29 16'	48 57	20 12'	45 03	0.5606	1.1483	1.2778
18	H	$1\frac{3}{4}$	434	154 04	52 02'	"	49 03'	20 10	45 10	"	1.1529	1.2819
19	γ	$1\frac{1}{2}$	545	157 03'	53 26'	27 43'	51 09'	18 14'	47 42'	0.5256	1.2418	1.3485

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
20	χ	$\overline{1}\frac{3}{4}$	434	155° 43'	51° 57'	27° 43'	49° 21'	18° 54'	45° 53'	0'5256	1'1651	1'2782
21	X	$\overline{1}\frac{3}{4}$	434	24 49'	51 23	"	48 39	19° 09'	45 09'	"	1'1103	1'2518
22	Γ	$\overline{1}\frac{4}{5}$	545	23 26	52 53'	"	50 29'	18 29'	47 02	"	1'2128	1'3218
23	f	$\frac{3}{4}$	334	20 19'	50 43'	23 01	48 54'	15 36	46 33	0'4248	1'1468	1'2229
24	d	$\frac{4}{5}$	445	20 16	52 32	24 19'	50 45	15 57'	48 07	0'4520	1'2238	1'3046
25	D	$\frac{4}{5}\frac{4}{5}$	445	159 50	52 40	"	50 54'	15 54'	48 16'	"	1'2308	1'3112
26	ω	$\frac{3}{5}\frac{1}{2}$	312	134 33	48 12	38 33'	38 07	32 05'	31 32	0'7971	0'7846	1'1185
27	Ω	$\frac{3}{5}\frac{1}{2}$	312	46 46	47 34'	"	36 51	32 32	30 22'	"	0'7495	1'0941
28	r	$\frac{5}{3}\frac{2}{3}$	523	42 00	54 03	42 41'	45 41'	32 48	36 58'	0'9227	1'0246	1'3788

Magnesit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 0.8095 \quad \lg c = 990822 \quad \lg a_0 = 033034 \quad \lg p_0 = 973213 \quad a_0 = 2.1397 \quad p_0 = 0.5397 \quad (G_2)$$

N ^o .	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	a	∞_0	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	p'	+1	1121	"	43 04	25 03	38 59'	19 58	36 15'	0'4674	0'8095	0'9347
5	?q'	-2	2241	"	61 51'	43 04	58 18	26 09'	49 47	0'9347	1'6190	1'8695
6	?K:	+41	4151	10 53'	67 59	25 03	67 37	10 05'	65 33	0'4674	2'4285	2'4731

Magneteisenerz.

Regulär.

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} o \\ o\infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} — \\ 0° 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} o \\ " \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$
2	B	$\left\{ \begin{array}{l} o\frac{1}{15} \\ o'15 \\ \infty 15 \end{array} \right.$	$\left\{ \begin{array}{l} 0'1'15 \\ 0'15'1 \\ 1'15'0 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 3 49 \end{array} \right.$	$\left\{ \begin{array}{l} 3 49 \\ 86 11 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 3 49 \\ 86 11 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 3 49 \end{array} \right.$	$\left\{ \begin{array}{l} 3 49 \\ 86 11 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 0'0667 \end{array} \right.$	$\left\{ \begin{array}{l} 0'0667 \\ 15'000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0'0667 \\ 15'000 \\ \infty \end{array} \right.$
3	ε	$\left\{ \begin{array}{l} o\frac{1}{5} \\ o5 \\ \infty 5 \end{array} \right.$	$\left\{ \begin{array}{l} 015 \\ 051 \\ 150 \end{array} \right.$	$\left\{ \begin{array}{l} o 00 \\ " \\ 11 18' \end{array} \right.$	$\left\{ \begin{array}{l} 11 18' \\ 78 41' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} o 00 \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 11 18' \\ 78 41' \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} o 00 \\ " \\ 11 18' \end{array} \right.$	$\left\{ \begin{array}{l} 11 18' \\ 78 41' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} o \\ " \\ 0'2000 \end{array} \right.$	$\left\{ \begin{array}{l} 0'2000 \\ 5'0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0'2000 \\ 5'0000 \\ \infty \end{array} \right.$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	α (Prismen) (x:y)	γ	d =tg ϱ	
4	a	$\left\{ \begin{array}{l} 0\frac{1}{3} \\ 03 \\ \infty 3 \end{array} \right.$	013 031 130	0° 00 " 18 26 18 26	18° 26 71 34 90 00	0° 00 " 90 00 90 00	18° 26 71 34 90 00	0° 00 " 18 26 18 26	18° 26 71 34 "	0 " 0°3333	0°3333 3°0000 ∞	0°3333 3°0000 ∞	
		5	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	012 021 120	0 00 " 26 34 26 34	26 34 63 26 90 00	0 00 " 90 00 90 00	26 34 63 26 90 00	0 00 " 26 34 26 34	0 " 0°5000	0°5000 2°0000 ∞	0°5000 2°0000 ∞
				6	L	$\left\{ \begin{array}{l} 0\frac{2}{3} \\ 09 \\ \infty \frac{2}{3} \end{array} \right.$	059 095 590	0 00 " 29 03 29 03	29 03 60 57 90 00	0 00 " 90 00 90 00	29 03 60 57 90 00	0 00 " 29 03 29 03	0 " 0°5556
7	h	$\left\{ \begin{array}{l} 0\frac{2}{3} \\ 09 \\ \infty \frac{2}{3} \end{array} \right.$	035 053 350			0 00 " 30 58 30 58	30 58 59 02 90 00	0 00 " 90 00 90 00	30 58 59 02 90 00	0 00 " 30 58 30 58	0 " 0°6000	0°6000 1°6667 ∞	0°6000 1°6667 ∞
		8	A			$\left\{ \begin{array}{l} 0\frac{2}{7} \\ 07 \\ \infty \frac{2}{7} \end{array} \right.$	079 097 790	0 00 " 37 52 37 52	37 52 52 07 90 00	0 00 " 90 00 90 00	37 52 52 07 90 00	0 00 " 37 52 37 52	0 " 0°7778
9	d			$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011 110	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	0 1°0000	1°0000 ∞	1°0000 ∞
				10	N	$\left\{ \begin{array}{l} 1\frac{1}{16} \\ 1\frac{1}{16} \end{array} \right.$	1°1'16 1°16'1	" 3 34 3 34	5 03 86 26	3 34 45 00	3 34 86 26	3 34 "	0°0625 1°0000
11	μ	$\left\{ \begin{array}{l} 1\frac{1}{10} \\ 1\frac{1}{10} \end{array} \right.$	1°1'10 1°10'1			45 00 5 42	8 03 84 19	5 42 45 00	5 42 84 17	5 41 "	0°1000 1°0000	0°1000 10°000	0°1414 10°050
		12	r	$\left\{ \begin{array}{l} 1\frac{1}{16} \\ 16 \end{array} \right.$	116 161	45 00 9 27	13 15 80 40	9 27 45 00	9 27 80 32	9 20 "	0°1667 1°0000	0°1667 6°0000	0°2357 6°0827
13	l			$\left\{ \begin{array}{l} 1\frac{1}{15} \\ 15 \end{array} \right.$	115 151	45 00 11 18	15 47 78 54	11 18 45 00	11 18 78 41	11 06 "	0°2000 1°0000	0°2000 5°0000	0°2828 5°0989
		14	λ	$\left\{ \begin{array}{l} 2\frac{1}{12} \\ 1\frac{1}{2} \end{array} \right.$	227 272	45 00 15 57	22 00 74 38	15 57 45 00	15 57 74 03	15 21 "	0°2857 1°0000	0°2857 3°5000	0°4041 3°6401
15	m			$\left\{ \begin{array}{l} 1\frac{1}{13} \\ 13 \end{array} \right.$	113 131	45 00 18 26	25 14 72 27	18 26 45 00	18 26 71 34	17 33 "	0°3333 1°0000	0°3333 3°0000	0°4714 3°1623
		16	o	$\left\{ \begin{array}{l} 2\frac{2}{15} \\ 1\frac{1}{2} \end{array} \right.$	225 252	45 00 21 48	29 29 69 37	21 48 45 00	21 48 68 12	20 22 "	0°4000 1°0000	0°4000 2°5000	0°5657 2°6924
17	ϱ			$\left\{ \begin{array}{l} 4\frac{1}{14} \\ 1\frac{1}{4} \end{array} \right.$	449 494	45 00 23 58	32 09 67 53	23 58 45 00	23 58 66 02	22 06 "	0°4444 1°0000	0°4444 2°2500	0°6285 2°4622
		18	q	$\left\{ \begin{array}{l} 1\frac{1}{12} \\ 12 \end{array} \right.$	112 121	45 00 26 34	35 16 65 54	26 34 45 00	26 34 63 26	24 05 "	0°5000 1°0000	0°5000 2°0000	0°7071 2°2360
19	p			I	111	45 00	54 44	"	45 00	35 16	35 16	"	1°0000
		20	v	$\left\{ \begin{array}{l} 1\frac{1}{3} \\ 3 \end{array} \right.$	133 331	18 26 45 00	46 30 76 44	18 26 71 34	" 71 34	13 16 43 29	43 29 "	0°3333 3°0000	" 3°0000
21	u			$\left\{ \begin{array}{l} 1\frac{1}{2} \\ 2 \end{array} \right.$	122 221	26 34 45 00	48 11 70 31	26 34 63 26	45 00 63 26	19 28 41 48	41 48 "	0°5000 2°0000	1°0000 2°0000

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
22	P	$\left\{ \begin{array}{l} \frac{3}{2} I \\ \frac{5}{3} \end{array} \right.$	355	30° 58	49° 23	30° 58	45° 00	22° 59	40° 37	0'6000	1'0000	1'1662
			553	45 00	67 00	59 02	59 02	40 37	"	1'6667	1'6667	2'3570
23	z	$\left\{ \begin{array}{l} \frac{1}{5} \frac{3}{5} \\ \frac{1}{3} \frac{3}{5} \\ 35 \end{array} \right.$	135	18 26	32 18	11 18	30 58	9 44	30 28	0'2000	0'6000	0'6325
			153	11 18	59 32	18 26	59 02	"	57 41	0'3333	1'6667	1'6996
			351	30 58	80 16	71 34	78 41	30 28	"	3'0000	5'0000	5'8310
24	x	$\left\{ \begin{array}{l} \frac{1}{3} \frac{2}{3} \\ \frac{1}{2} \frac{2}{3} \\ 23 \end{array} \right.$	123	26 34	36 42	18 26	33 41	15 30	32 18	0'3333	0'6667	0'7453
			132	18 26	57 41	26 34	56 18	"	53 18	0'5000	1'5000	1'5811
			231	33 41	74 30	63 26	71 34	32 18	"	2'0000	3'0000	3'6055
25	y	$\left\{ \begin{array}{l} \frac{1}{2} \frac{3}{4} \\ \frac{2}{3} \frac{3}{4} \\ \frac{3}{2} \end{array} \right.$	234	"	42 02	26 34	36 52	21 48	33 51	0'5000	0'7500	0'9014
			243	26 34	56 08	33 41	53 08	"	47 58	0'6667	1'3333	1'4907
			342	36 52	68 12	56 18	63 26	33 51	"	1'5000	2'0000	2'5000
26	D	$\left\{ \begin{array}{l} \frac{9}{13} \frac{11}{13} \\ \frac{9}{11} \frac{13}{11} \\ \frac{11}{9} \frac{13}{9} \end{array} \right.$	9'11'13	39 17	47 33	34 41	40 14	27 51	34 49	0'6923	0'8462	1'0933
			9'13'11	34 41	55 10	39 17	49 46	"	42 27	0'8182	1'1818	1'4374
			11'13'9	40 14	62 08	50 42	55 18	34 49	"	1'2222	1'4444	1'8921
27	V	$\left\{ \begin{array}{l} \frac{3}{5} \frac{4}{5} \\ \frac{3}{4} \frac{5}{4} \\ \frac{4}{3} \frac{5}{3} \end{array} \right.$	345	36 52	45 00	30 58	38 39	25 06	34 27	0'6000	0'8000	1'0000
			354	30 58	55 33	36 52	51 20	"	45 00	0'7500	1'2500	1'4577
			453	38 39	64 54	53 08	59 02	34 27	"	1'3333	1'6667	2'1344
28	Γ	$\left\{ \begin{array}{l} \frac{2}{5} \frac{5}{6} \\ \frac{4}{5} \frac{5}{6} \\ \frac{5}{4} \frac{3}{2} \end{array} \right.$	456	"	46 51	33 41	39 48	27 07	34 44	0'6667	0'8333	1'0672
			465	33 41	55 16	38 39	50 11	"	43 08	0'8000	1'2000	1'4422
			564	39 48	62 53	51 20	56 18	34 44	"	1'2500	1'5000	1'9525
29	θ	$\left\{ \begin{array}{l} \frac{1}{9} \frac{7}{9} \\ \frac{7}{9} \frac{9}{7} \\ 79 \end{array} \right.$	179	8 08	38 09	6 20	37 52	5 00	37 42	0'1111	0'7778	0'7857
			197	6 20	52 17	8 08	52 07	"	51 50	0'1429	1'2857	1'2936
			791	37 52	84 59	81 52	83 39	37 42	"	7'0000	9'0000	11'402
30	Δ	$\left\{ \begin{array}{l} \frac{5}{7} \frac{1}{3} \\ \frac{5}{3} \frac{1}{3} \\ \frac{7}{5} \frac{2}{5} \end{array} \right.$	5'7'21	35 32	22 16	13 23	18 26	12 43	17 58	0'2381	0'3333	0'4096
			5'21'7	13 23	72 02	35 32	71 34	"	67 43	0'7113	3'0000	3'0838
			7'21'5	18 26	77 16	54 27	76 36	17 58	"	1'4000	4'2000	4'4272

Magnetkies.

Hexagonal.

$$c = 1'4291 \quad \lg c = 0'15506 \quad \lg a_0 = 0'08350 \quad \lg p_0 = 997897 \quad a_0 = 1'2120 \quad p_0 = 0'9527 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	m	∞o	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	n	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	t	$\frac{1}{2}o$	1012	0 00	25 28	0 00	25 28	0 00	25 28	o	0'4764	0'4764
5	r	10	1011	"	43 37	"	43 37	"	43 37	"	0'9527	0'9527

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
6	s	20	20 $\bar{2}$ 1	0°00	62°18'	0°00	62°18'	0°00	62°18'	0	1'9055	1'9055
7	v	40	40 $\bar{4}$ 1	"	75 18	"	75 18	"	75 18	"	3'8109	3'8109
8	?D	60	60 $\bar{6}$ 1	"	80 04'	"	80 04'	"	80 04'	"	5'7164	5'7164
9	y	70	70 $\bar{7}$ 1	"	81 28'	"	81 28'	"	81 28'	"	6'6691	6'6691
10	ξ	$\frac{1}{2}$	11 $\bar{2}$ 2	30 00	39 31'	22 25	35 33	18 33'	33 27	0'4125	0'7145	0'8251
11	z	1	11 $\bar{2}$ 1	"	58 47	39 31'	55 01	25 19	47 47	0'8251	1'4291	1'6502

Malachit.

Mönoklin.

a = 0'7823	lg a = 989337	lg a ₀ = 028742	lg p ₀ = 971258	a ₀ = 1'9383	p ₀ = 0'5159
c = 0'4036	lg c = 960595	lg b ₀ = 039405	lg q ₀ = 960588	b ₀ = 2'4777	q ₀ = 0'4035
$\mu = \left. \begin{matrix} 180 \\ 180 - \beta \end{matrix} \right\} 88^{\circ} 57'$	lg h = $\left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 999993$	lg e = $\left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 826304$	lg $\frac{p_0}{q_0}$ = 010670	h = 0'9998	e = 0'0183

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	x	0	001	90°00	1°03	1°03	0°00	1°03	0°00	0'0183	0	0'0183
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	51 58	"	"	90 00	51 58	38 02	1'2785	∞	"
5	φ	0 $\frac{5}{8}$	058	4 09'	14 11'	1 03	14 09'	1 01	14 09'	0'0183	0'2522'	0'2529
6	d	0 $\frac{2}{3}$	023	3 54	15 05'	"	15 03'	"	15 03'	"	0'2690'	0'2697
7	c	$\frac{1}{10}$	101	90 00	28 07	28 07	0 00	28 07	0 00	0'5343	0	0'5343
8	u	$\frac{1}{40}$	104	"	8 23	8 23	"	8 23'	"	0'1473	"	0'1473
9	f	$-\frac{1}{10}$	104	90 00	6 19	$\bar{6}$ 19	"	$\bar{6}$ 19	"	0'1107	"	0'1107
10	g	$-\frac{1}{30}$	103	"	8 44	$\bar{8}$ 44	"	$\bar{8}$ 44	"	0'1536	"	0'1536
11	h	$-\frac{1}{20}$	102	"	13 28'	13 28'	"	13 28'	"	0'2396'	"	0'2396'
12	y	-10	101	"	26 27'	$\bar{26}$ 27'	"	$\bar{26}$ 27'	"	0'4977	"	0'4977
13	n	$-\frac{1}{2}$	112	49 54'	17 24	13 28'	11 24'	13 13'	11 06	0'2397	0'2018	0'3133
14	e	-1	111	50 57'	32 39	$\bar{26}$ 27'	21 59	24 46'	19 52	0'4977	0'4226	0'6408
15	p	-2	$\bar{2}$ 21	51 28	52 20'	45 23'	38 54'	38 16	29 33	1'0137	0'8072	1'2958
16	ε	$-1\frac{2}{3}$	323	61 36	29 30	$\bar{26}$ 27'	15 03'	25 40	13 32'	0'4977	0'2690'	0'5658
17	α	$-\frac{1}{4}\frac{1}{2}$	124	28 45	12 58	$\bar{6}$ 19	11 24'	$\bar{6}$ 11'	11 20'	0'1107	0'2018	0'2302
18	β	$-\frac{1}{4}\frac{3}{4}$	134	20 05'	17 52	"	16 50'	$\bar{6}$ 03	16 45	"	0'3027	0'3223
19	γ	$-\frac{1}{3}\frac{2}{3}$	123	29 44	17 13	8 44	15 03'	8 26'	14 53'	0'1536'	0'2690'	0'3099

Manganblende.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ 0\infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	d	$\begin{cases} 01 \\ \infty \end{cases}$	$\begin{matrix} 011 \\ 110 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 90 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ " \end{matrix}$	$\begin{matrix} " \\ 1'0000 \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$
3	q	$\begin{cases} \frac{1}{2} \\ 12 \end{cases}$	$\begin{matrix} 112 \\ 121 \end{matrix}$	$\begin{matrix} " \\ 26 34 \end{matrix}$	$\begin{matrix} 35 16 \\ 65 54' \end{matrix}$	$\begin{matrix} 26 34 \\ 45 00 \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \end{matrix}$	$\begin{matrix} 24 05' \\ " \end{matrix}$	$\begin{matrix} 24 05' \\ 54 44 \end{matrix}$	$\begin{matrix} 0'5000 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'5000 \\ 2'0000 \end{matrix}$	$\begin{matrix} 0'7071 \\ 2'2360 \end{matrix}$
4	pp'	± 1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142

Manganepidot.

Monoklin.

a = 1'6100	lg a = 020683	lg a ₀ = 994376	lg p ₀ = 005624	a ₀ = 0'8785	p ₀ = 1'1383
c = 1'8326	lg c = 026307	lg b ₀ = 973693	lg q ₀ = 021910	b ₀ = 0'5457	q ₀ = 1'6562
$\mu = \begin{cases} 180 \\ \beta \end{cases} \left. \vphantom{\begin{matrix} 180 \\ \beta \end{matrix}} \right\} 64^\circ 39$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 995603$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 963159$	$\lg \frac{p_0}{q_0} = 983714$	h = 0'9037	e = 0'4281

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	25°21	25°21	0°00	25°21	0°00	0'4737	0	0'4737
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	t	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	34 30	"	"	90 00	34 30	55 30	0'6873	∞	"
5	e	+10	101	90 00	60 01	60 01	0 00	60 01	0 00	1'7333	0	1'7333
6	i	-½0	102	90 00	8 52'	8 52'	"	8 52'	"	0'1561	"	0'1561
7	n	-1	111	23 13	63 22	38 10	61 23	20 38	55 14'	0'7859	1'8326	1'9939

Manganit.

Rhombisch.

$a = 0.8441$	$\lg a = 992639$	$\lg a_0 = 019015$	$\lg p_0 = 980985$	$a_0 = 1.5493$	$p_0 = 0.6454$
$c = 0.5448$	$\lg c = 973624$	$\lg b_0 = 026376$	$\lg q_0 = 973624$	$b_0 = 1.8353$	$q_0 = 0.5448$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	α	30∞	30.1.0	88 23'	"	"	90 00	88 23'	1 36'	35.5408	∞	"
5	β	16∞	16.1.0	86 59'	"	"	"	86 59'	3 01'	18.9552	"	"
6	ψ	12∞	12.1.0	85 58'	"	"	"	85 58'	4 01'	14.2164	"	"
7	ν	10∞	10.1.0	85 10'	"	"	"	85 10'	4 49'	11.8470	"	"
8	μ	6∞	6.1.0	81 59'	"	"	"	81 59'	8 00'	7.1082	"	"
9	h	4∞	410	78 05'	"	"	"	78 05'	11 55'	4.7388	"	"
10	λ	3∞	310	74 16'	"	"	"	74 16'	15 43'	3.5541	"	"
11	π	$\frac{2}{5}\infty$	520	71 20'	"	"	"	71 20'	18 39'	2.9617	"	"
12	d	2∞	210	67 07'	"	"	"	67 07'	22 53'	2.3694	"	"
13	i	$\frac{4}{3}\infty$	430	57 40'	"	"	"	57 40'	32 20'	1.5796	"	"
14	δ	$\frac{4}{5}\infty$	650	54 52'	"	"	"	54 52'	35 07'	1.4216	"	"
15	q	$\frac{10}{9}\infty$	10.9.0	52 46'	"	"	"	52 46'	37 13'	1.3163	"	"
16	m	∞	110	49 50'	"	"	"	49 50'	40 10'	1.1847	"	"
17	κ	$\frac{8}{13}\infty$	12.13.0	47 33'	"	"	"	47 33'	42 26'	1.0935	"	"
18	k	$\frac{8}{3}\infty$	230	38 18'	"	"	"	38 18'	51 42'	0.7898	"	"
19	z	$\frac{8}{5}\infty$	350	35 24'	"	"	"	35 24'	54 35'	0.7108	"	"
20	l	$\frac{8}{2}\infty$	120	30 38'	"	"	"	30 38'	59 21'	0.5923	"	"
21	t	$\frac{8}{5}\infty$	250	25 21'	"	"	"	25 21'	64 38'	0.4739	"	"
22	y	$\frac{8}{3}\infty$	130	21 33'	"	"	"	21 33'	68 27'	0.3949	"	"
23	r	$\frac{8}{5}\infty$	150	13 20'	"	"	"	13 20'	76 40'	0.2369	"	"
24	e	01	011	0 00	28 35	0 00	28 35	0 00	28 35	0	0.5448	0.5448
25	f	02	021	"	47 27'	"	47 27'	"	47 27'	"	1.0896	1.0896
26	i	$\frac{1}{15}0$	1.0.15	90 00	2 28	2 28	0 00	2 28	0 00	0.0430	0	0.0430
27	ϑ	$\frac{1}{15}0$	2.0.15	"	4 55	4 55	"	4 55	"	0.0860	"	0.0860
28	η	$\frac{1}{5}0$	105	"	7 21'	7 21'	"	7 21'	"	0.1291	"	0.1291
29	ε	$\frac{2}{5}0$	205	"	14 28'	14 28'	"	14 28'	"	0.2581	"	0.2581
30	u	10	101	"	32 50'	32 50'	"	32 50'	"	0.6454	"	0.6454
31	w	20	201	"	52 14	52 14	"	52 14	"	1.2908	"	1.2908
32	n	12	121	30 48'	51 42	32 50'	47 27'	23 34'	42 28'	0.6454	1.0896	1.2664
33	p	1	111	49 50	40 11	"	28 35	29 32'	24 35'	"	0.5448	0.8446
34	γ	$\frac{1}{3}\infty$	323	60 38'	36 31'	"	19 57'	31 14'	16 58'	"	0.3632	0.7406
35	s	$\frac{1}{2}\infty$	212	67 07'	35 01	"	15 14	31 55'	12 53'	"	0.2724	0.7006
36	σ	$\frac{1}{5}\infty$	525	71 20'	34 16	"	12 17'	32 14'	10 22'	"	0.2179	0.6812

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
37	g	$1\frac{1}{3}$	313	74° 17'	33° 50'	32° 50'	10° 17'	32° 25'	8° 40'	0·6454'	0·1816	0·6705
38	χ	$1\frac{1}{4}$	414	78 05	33 24'	"	7 45'	32 36	6 31'	"	0·1362	0·6596
39	q	$1\frac{1}{5}$	515	80 25	33 12'	"	6 13	32 41	5 14	"	0·1089'	0·6546
40	τ	$1\frac{1}{6}$	616	81 59'	33 06	"	5 11'	32 44	4 21	"	0·0908	0·6518
41	o	$1\frac{1}{10}$	10·1·10	85 10'	32 56	"	3 07	32 48	2 37	"	0·0545	0·6477
42	ξ	$1\frac{1}{20}$	20·1·20	87 38'	32 52	"	1 33'	32 49'	1 18'	"	0·0272'	0·6460
43	φ	$1\frac{1}{7}$	177	9 36	28 55'	5 16	28 35	4 37'	28 29	0·0922	0·5448	0·5526
44	v	2	221	49 50	59 22'	52 14	47 27'	41 07	33 43	1·2908'	1·0896	1·6892
45	ω	$\frac{4}{3}$	443	"	48 24	40 43	35 59'	34 51	28 50	0·8606	0·7264	1·1265
46	x	$\frac{3}{5}\frac{6}{5}$	365	30 38'	37 13'	21 10	33 10'	17 57'	31 22	0·3872'	0·6537'	0·7599

Manganosit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ 0\infty \end{array} \right.$	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011 110	" 45 00	45 00 90 00	" 90 00	45 00 90 00	" 45 00	45 00 "	" 1·0000	1·0000 ∞	1·0000 ∞
3	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1·0000	1·4142

Manganspath.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 0·8183 \quad | \quad \lg c = 991291 \quad | \quad \lg a_0 = 032565 \quad | \quad \lg p_0 = 973682 \quad | \quad a_0 = 2·1166 \quad | \quad p_0 = 0·5455 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	δ	$-\frac{1}{2}$	1122	30 00	25 17'	13 17'	22 15	12 20	21 42'	0·2362	0·4091	0·4724
4	p'	+1	1121	"	43 22'	25 17'	39 17'	20 05	36 30	0·4724	0·8183	0·9449
5	φ'	-2	2241	"	62 07	43 22'	58 34'	26 13'	49 57	0·9449	1·6366	1·8898
6	A'	$-\frac{2}{3}$	$\bar{7}\bar{7}14\cdot 2$	"	73 10'	58 50	70 45	28 35'	55 59'	1·6536	2·8641	3·3071
7	t:	+1 $\frac{1}{4}$	4154	10 53'	32 00'	6 44	31 32'	5 45	31 21'	0·1181	0·6137	0·6250
8	K:	+41	4151	"	68 12	25 17'	67 50	10 06'	65 45	0·4724	2·4549	2·5000
9	P:	+71	7181	6 35	76 21	"	76 16	6 24	74 52'	"	4·0915	4·1186

Markasit.

Rhombisch.

$a = 0.7580$	$\lg a = 987967$	$\lg a_0 = 979610$	$\lg p_0 = 020390$	$a_0 = 0.6253$	$p_0 = 1.5992$
$c = 1.2122$	$\lg c = 008357$	$\lg b_0 = 991643$	$\lg q_0 = 008357$	$b_0 = 0.8250$	$q_0 = 1.2122$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	p	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	q	oo	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞o	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"
4	m	∞	110	52 50	"	"	90 00	52 50	37 10	1'3192	∞	"
5	r	$o\frac{1}{4}$	014	o 00	16 51	o 00	16 51	o 00	16 51	o	0'3030	0'3030
6	b	$o\frac{1}{3}$	013	"	22 00	"	22 00	"	22 00	"	0'4040	0'4040
7	y	$o\frac{2}{5}$	025	"	25 52	"	25 52	"	25 52	"	0'4849	0'4849
8	z	$o\frac{1}{2}$	012	"	31 13	"	31 13	"	31 13	"	0'6061	0'6061
9	l	oi	011	"	50 29	"	50 29	"	50 29	"	1'2122	1'2122
10	g	io	101	90 00	57 59	57 59	o 00	57 59	o 00	1'5992	o	1'5992
11	h	i	111	52 50	63 30	"	50 29	45 30	32 43	"	1'2122	2'0067

Martinit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 0.8559$	$\lg c = 993242$	$\lg a_0 = 030614$	$\lg p_0 = 975633$	$a_0 = 2.0237$	$p_0 = 0.5706$ (G_2)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	p	i	1121	30°00	44°38	26°16	40°31	20°36	37°30	0'4941	0'8559	0'9872

Mascagnin.

Rhombisch.

$a = 0.5642$	$\lg a = 975143$	$\lg a_0 = 988757$	$\lg p_0 = 011243$	$a_0 = 0.7719$	$p_0 = 1.2955$
$c = 0.7309$	$\lg c = 986386$	$\lg b_0 = 013614$	$\lg q_0 = 986386$	$b_0 = 1.3682$	$q_0 = 0.7309$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	oo	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞o	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"
4	m	∞	110	60 34	"	"	90 00	60 34	29 26	1'7724	∞	"
5	f	∞3	130	30 34	"	"	"	30 34	59 25	0'5908	"	"
6	u	01	011	o 00	36 10	o 00	36 10	o 00	36 10	o	0'7309	0'7309
7	v	02	021	"	55 37	"	55 37	"	55 37	"	1'4958	1'4958
8	o	i	111	60 34	56 05	52 20	36 10	46 17	24 04	1'2951	0'7309	1'4875

Matlockit.**Tetragonal.**

$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 1.763$	$\lg c = 0.24625$	$\lg a_o = 9.75375$	$a_o = 0.5672$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	m	∞	110	45°00	90°00	90°00	90°00	45°00	45°00	1'0000	∞	∞
3	e	01	011	0°00	60°26	0°00	60°26	0°00	60°26	o	1'7630	1'7630
4	r	1	111	45°00	68°09	60°26	"	41°01	41°01	1'7630	"	2'4932

Mazapilit.**Rhombisch.**

$a = 0.864$	$\lg a = 9.93651$	$\lg a_o = 9.94175$	$\lg p_o = 0.05825$	$a_o = 0.8745$	$p_o = 1.1435$
$c = 0.988$	$\lg c = 9.99476$	$\lg b_o = 0.00524$	$\lg q_o = 9.99476$	$b_o = 1.0121$	$q_o = 0.9880$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	n	$\infty 2$	120	30°03'	90°00	90°00	90°00	30°03'	59°56'	0'5787	∞	∞
2	d	$0\frac{1}{2}$	012	0°00	26°17'	0°00	26°17'	0°00	26°17'	o	0'4940	0'4940
3	r	20	201	90°00	66°23	66°23	0°00	66°23	0°00	2'2870	o	2'2870
4	o	1	111	49°10'	56°30'	48°50'	44°39'	39°07'	33°02'	1'1435	0'9880	1'5112

Melanglanz.**Rhombisch.**

$a = 0.6291$	$\lg a = 9.79872$	$\lg a_o = 9.96297$	$\lg p_o = 0.03703$	$a_o = 0.9183$	$p_o = 1.0890$
$c = 0.6851$	$\lg c = 9.83575$	$\lg b_o = 0.16425$	$\lg q_o = 9.83575$	$b_o = 1.4597$	$q_o = 0.6851$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	0∞	010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	a	$\infty 0$	100	90°00	"	90°00	0°00	90°00	0°00	∞	o	"
4	λ	3∞	310	78°09'	"	"	90°00	78°09'	11°50'	4'7686	∞	"
5	L	2∞	210	72°32'	"	"	"	72°32'	17°27'	3.1791	"	"
6	o	∞	110	57°49'	"	"	"	57°49'	32°10'	1'5895	"	"

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ρ
7	O	$\infty \frac{3}{2}$	230	46° 39'	90° 00'	90° 00'	90° 00'	46° 39'	43° 20'	1'0597	∞	∞
8	u	$\infty \frac{3}{2}$	350	43 38'	"	"	"	43 38'	46 21'	0'9537	"	"
9	U	$\infty 2$	120	38 28'	"	"	"	38 28'	51 31'	0'7947	"	"
10	⊗	$\infty \frac{11}{5}$	5'11'0	35 51	"	"	"	35 51	54 09	0'7225	"	"
11	π	$\infty 3$	130	27 55	"	"	"	27 55	62 05	0'5298	"	"
12	I	$\infty 5$	150	17 38	"	"	"	17 38	72 22	0'3179	"	"
13	i	$\infty 11$	1'11'0	8 13'	"	"	"	8 13'	81 46'	0'1445	"	"
14	a	$0 \frac{1}{3}$	013	0 00	12 52	0 00	12 52	0 00	12 52	0	0'2283'	0'2283'
15	s	$0 \frac{1}{2}$	012	"	18 54'	"	18 54'	"	18 54'	"	0'3425'	0'3425'
16	i	$0 \frac{5}{2}$	059	"	20 50	"	20 50	"	20 50	"	0'3806	0'3806
17	t	$0 \frac{2}{3}$	023	"	24 33	"	24 33	"	24 33	"	0'4567'	0'4567'
18	a	$0 \frac{2}{3}$	045	"	28 43'	"	28 43'	"	28 43'	"	0'5480'	0'5480'
19	k	011	011	"	34 25	"	34 25	"	34 25	"	0'6851	0'6851
20	ι	$0 \frac{2}{3}$	065	"	39 25'	"	39 25'	"	39 25'	"	0'8221	0'8221
21	κ	$0 \frac{1}{3}$	043	"	42 24'	"	42 24'	"	42 24'	"	0'9134'	0'9134'
22	j	$0 \frac{3}{2}$	032	"	45 47	"	45 47	"	45 47	"	1'0276'	1'0276'
23	d	02	021	"	53 52'	"	53 52'	"	53 52'	"	1'3702	1'3702
24	e	04	041	"	69 57	"	69 57	"	69 57	"	2'7403'	2'7403'
25	E	06	061	"	76 19'	"	76 19'	"	76 19'	"	4'1105'	4'1105'
26	δ	07	071	"	78 13	"	78 13	"	78 13	"	4'7956'	4'7956'
27	f	$0 \frac{1}{2}$	0'15'2	"	78 59	"	78 59	"	78 59	"	5'1382	5'1382
28	e	08	081	"	79 39'	"	79 39'	"	79 39'	"	5'4807'	5'4807'
29	b	0'14	0'14'1	"	84 03	"	84 03	"	84 03	"	9'5914	9'5914
30	c	$\frac{1}{2}0$	102	90 00	28 34	28 34	0 00	28 34	0 00	0'5445	0	0'5445
31	b	$\frac{2}{3}0$	203	"	35 59	35 59	"	35 59	"	0'7260	"	0'7260
32	β	10	101	"	47 26'	47 26'	"	47 26'	"	1'0890	"	1'0890
33	g	20	201	"	65 20'	65 20'	"	64 20'	"	2'1780	"	2'1780
34	G	30	301	"	72 59	72 59	"	72 59	"	3'2670	"	3'2670
35	C	16	161	14 50'	76 46	47 26'	76 19'	14 26	70 13	1'0890	4'1105	4'2524
36	γ	15	151	17 38	74 27	"	73 43'	16 58	66 39'	"	3'4254	3'5943
37	D	14	141	21 40'	71 16	"	69 56	20 28	61 39	"	2'7404	2'9488
38	W	$1 \frac{1}{3}$	3'11'3	23 26	69 56	"	68 17'	21 56'	59 31	"	2'5120	2'7379
39	w	13	131	27 55	66 44	"	64 03'	25 28'	54 16	"	2'0553	2'3259
40	R	12	121	38 28'	60 15'	"	53 52'	32 42	42 49'	"	1'3702	1'7502
41	P	1	111	57 49'	52 08'	"	34 25	41 56	24 51'	"	0'6851	1'2865
42	φ	$1 \frac{2}{3}$	535	69 19	49 20	"	22 20'	45 12'	15 32	"	0'4110'	1'1640
43	A	$1 \frac{1}{3}$	313	78 09'	48 03	"	12 52	46 43	8 47	"	0'2283'	1'1127
44	M	$1 \frac{1}{3}$	818	85 30	47 31'	"	4 53'	47 20	3 19	"	0'0856	1'0924
45	N	3	331	57 49'	75 28'	72 59	64 03'	55 01'	31 01'	3'2670	2'0553	3'8597
46	Q	$7 \frac{2}{3}$	773	"	71 34'	68 31	57 58'	53 25'	30 20'	2'5410'	1'5985	3'0020
47	r	2	221	"	68 46	65 20'	53 52'	52 05'	29 45'	2'1780	1'3702	2'5731
48	p	$\frac{3}{2}$	332	"	62 36'	58 31'	45 47	48 43'	28 13	1'6335	1'0276	1'9298
49	S	$\frac{4}{3}$	443	"	59 45'	55 26'	42 42'	46 59'	27 23'	1'4520	0'9134'	1'7154
50	X	$\frac{4}{3}$	554	"	58 07'	53 42'	40 34'	45 57'	26 53	1'3622'	0'8563'	1'6082
51	l	$\frac{3}{2}$	223	"	40 37	35 59	24 33	33 26'	20 17	0'7260	0'4567'	0'8577

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x : y)	y	d =tg ϱ
52	h'	$\frac{1}{2}$	112	57° 49'	32° 45'	28° 34'	18° 54'	27° 15'	16° 44'	0'5445	0'3425'	0'6433
53	m'	$\frac{1}{3}$	113	"	23 13	19 57	12 52	19 29'	12 07'	0'3630	0'2283'	0'4289
54	q'	$\frac{1}{4}$	114	"	17 50	15 14	9 43	15 01'	9 23'	0'2722'	0'1712'	0'3216
55	Y'	$\frac{1}{5}$	115	"	14 26	12 17	7 48	12 10'	7 37'	0'2178	0'1370	0'2573
56	K'	$\frac{1}{5}$ I	155	17 38'	35 42'	"	34 25'	10 11'	33 48'	"	0'6851	0'7189
57	f'	$\frac{1}{3}$ I	133	27 55'	37 47'	19 57'	"	16 40'	32 47'	0'3630	"	0'7753
58	H'	$\frac{1}{2}$ I	122	38 28'	41 11'	28 34'	"	24 11'	31 02'	0'5445	"	0'8751
59	Z'	2 I	211	72 32'	66 21'	65 20'	"	60 54'	15 57'	2'1780	"	2.2832
60	ζ'	3 I	311	78 09'	73 19'	72 59'	"	69 38'	11 20'	3'2670	"	3'3381
61	ℳ'	$\frac{1.3}{4}$ I	13'4'4	79 02'	74 30'	74 13'	"	71 05'	10 33'	3'5392	"	3'6050
62	ℳ'	$\frac{1.8}{5}$ I	18'5'5	80 05'	75 54'	75 41'	"	72 49'	9 36'	3'9204	"	3'9798
63	A'	$\frac{2}{3}$ $\frac{1}{3}$	213	72 32'	37 16'	35 59'	12 52'	35 17'	10 28'	0'7260	0'2283'	0'7611
64	ξ:	$\frac{3}{2}$ $\frac{1}{2}$	312	78 09'	59 04'	58 31'	18 54'	57 05'	10 08'	1'6335	0'3425'	1'6690
65	τ:	$\frac{5}{2}$ $\frac{1}{2}$	512	82 49'	69 58'	69 50'	"	68 47'	6 44'	2'7225	"	2'7440
66	ϑ:	24	241	38 28'	74 03'	65 20'	69 57'	36 45'	48 50'	2'1780	2'7404	3'5005
67	u:	$\frac{2}{3}$ $\frac{4}{3}$	243	"	49 24'	35 59'	42 24'	28 11'	36 28'	0'7260	0'9134	1'1668
68	T:	$\frac{1}{2}$ 2	142	21 40'	55 51'	28 34'	53 52'	17 48'	50 16'	0'5445	1'3702	1'4744
69	Θ:	$\frac{1}{2}$ $\frac{1}{6}$	316	78 09'	29 05'	"	6 31'	28 25'	5 43'	"	0'1116	0.5564
70	v:	$\frac{1}{2}$ $\frac{3}{2}$	132	27 55'	49 18'	"	45 47'	20 47'	42 04'	"	1'0276	1'1630
71	h:	$\frac{1.3}{4}$ $\frac{3}{10}$ $\frac{2}{10}$	13'39'40	"	37 05'	19 29'	33 44'	16 24'	32 12'	0'3539	0'6679'	0'7559
72	f:	$\frac{3}{10}$ $\frac{9}{10}$	3'9'10	"	34 54'	18 05'	31 39'	15 32'	30 22'	0'3267	0'6166	0'6978
73	l:	$\frac{2}{7}$ $\frac{6}{7}$	267	"	33 36'	17 17'	30 25'	15 01'	29 17'	0'3111'	0'5872	0'6646
74	m:	$\frac{3}{11}$ $\frac{9}{11}$	3'9'11	"	32 23'	16 32'	29 16'	14 31'	28 15'	0'2970	0'5605	0'6344
75	ω:	$\frac{1}{4}$ $\frac{3}{4}$	134	"	30 10'	15 14'	27 11'	13 37'	26 22'	0'2722'	0'5138	0'5815
76	n:	$\frac{1}{5}$ $\frac{3}{5}$	135	"	24 57'	12 17'	22 20'	11 23'	21 53'	0'2178	0'4110'	0'4652
77	p:	$\frac{5}{27}$ $\frac{5}{9}$	5'15'27	"	23 18'	11 24'	20 50'	10 40'	20 27'	0'2016'	0'3806	0'4307
78	q:	$\frac{1}{3}$ 3	193	10 01'	64 24'	19 57'	64 03'	9 01'	62 38'	0.3630	2'0553	2'0871
79	μ:	28	281	21 40'	80 22'	65 20'	79 39'	21 21'	66 22'	2'1780	5'4807'	5'8977
80	⊙:	2'10	2'10'1	17 38'	82 05'	"	81 41'	17 28'	70 43'	"	6'8510	7'1887
81	η:	3'15	3'15'1	"	84 41'	72 59'	84 26'	17 33'	71 36'	3'2670	10'2764	10'783
82	θ:	$\frac{1}{2}$ $\frac{5}{2}$ $\frac{9}{2}$	152	"	60 54'	28 34'	59 43'	15 21'	56 23'	0'5445	1'7127	1'7972
83	n:	$\frac{1}{4}$ $\frac{3}{4}$	153	"	50 09'	19 57'	48 47'	13 27'	47 01'	0'3630	1'1418	1'1981
84	r:	$\frac{1}{6}$ $\frac{5}{6}$	156	"	30 55'	10 17'	29 43'	8 57'	29 19'	0'1815	0'5709	0'5991
85	y:	35	351	43 38'	78 04'	72 59'	73 43'	42 28'	45 04'	3'2670	3'4254'	4'7337
86	B:	$\frac{3}{2}$ $\frac{1}{2}$	916	86 00'	58 35'	58 31'	6 31'	58 21'	3 24'	1'6335	0'1116	1'6375
87	x:	46	461	46 39'	80 31'	77 04'	76 19'	45 50'	42 36'	4'3560	4'1105	5'9892
88	j:	$\frac{1}{2}$ $\frac{7}{2}$	172	12 47'	67 52'	28 34'	67 21'	11 50'	64 36'	0'5445	2'3978	2'4589
89	Γ:	37	371	34 16'	80 13'	72 59'	78 13'	33 42'	54 32'	3'2670	4'7957	5'8028
90	v:	$\frac{1}{2}$ $\frac{9}{2}$	192	10 01'	72 17'	28 34'	72 01'	9 32'	69 44'	0'5445	3'0829	3'1306
91	F:	59	591	41 27'	83 04'	79 35'	80 47'	41 04'	48 04'	5'4450	6'1659	8'2258
92	ε:	$\frac{7}{2}$ $\frac{2}{2}$	2'22'7	8 13'	65 19'	17 17'	65 05'	7 28'	64 04'	0'3111'	2'1531'	2'1759
93	ψ:	$\frac{5}{2}$ $\frac{3}{2}$	532	69 19'	71 02'	69 50'	45 47'	62 13'	19 30'	2'7225	1'0276'	2'9100

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
94	E:	$\frac{3}{4} \frac{5}{4}$	354	43° 38'	49° 48'	39° 14'	40° 34'	31° 49'	33° 33'	0·8167	0·8563	1·1834
95	A:	$\frac{1}{2} \frac{5}{5}$	356	"	38 16'	28 34	29 43'	25 18'	26 38	0·5445	0·5709	0·7890
96	Z:	$\frac{3}{2} \frac{5}{2}$	352	"	67 06	58 31'	59 43'	39 28'	41 48'	1·6335	1·7127	2·3668
97	II:	$\frac{3}{2} \frac{7}{2}$	372	34 16	70 59	"	67 21'	32 09'	51 23	"	2·3978	2·9013
98	σ :	$\frac{1}{4} \frac{5}{8}$	258	32 27	26 54	15 14	23 11	14 03	22 27	0·2722	0·4282	0·5074
99	t:	$\frac{1}{2} \frac{11}{6}$	3·11·6	23 26'	53 51	28 34	51 28'	18 44	47 48'	0·5445	1·2560	1·3689
100	v:	$\frac{1}{2} \frac{13}{6}$	3·13·6	57 50	32 45	"	18 54	27 15	16 44	"	0·3424	0·6432
101	z:	$\frac{7}{3} \frac{13}{3}$	7·13·3	40 33'	75 39	68 31	71 23	39 03	47 23'	2·5410	2·9687	3·9076
102	D:	$\frac{7}{9} \frac{11}{9}$	7·11·9	45 20	49 59	40 16	39 56'	33 00	32 34'	0·8470	0·8373	1·1910

Melanocerit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1·2554 \quad \lg c = 009878 \quad \lg a_0 = 013978 \quad \lg p_0 = 992269 \quad a_0 = 1·3797 \quad p_0 = 0·8369 \quad (G_2)$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	E	$-\frac{1}{4}$	1124	30 00	19 55	10 16	17 25'	9 48'	17 09'	0·1812	0·3139	0·3624
3	f d	$\pm \frac{1}{2}$	1122	"	35 56	19 55	32 07	17 04	30 33	0·3624	0·6277	0·7248
4	p	+1	1121	"	55 24	35 56	51 27'	24 18'	45 28'	0·7248	1·2554	1·4496
5	φ	-2	2241	"	70 58	55 24	68 17	28 12'	54 57	1·4496	2·5108	2·8992
6	m	+4	4481	"	80 13	70 58	78 44	29 31	58 35	2·8992	5·0216	5·7984

Melanophlogit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} o \\ o\infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} — \\ 0° 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} o \\ " \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$
2	e	$\left\{ \begin{array}{l} o\frac{1}{2} \\ o2 \\ \infty 2 \end{array} \right.$	$\left\{ \begin{array}{l} 012 \\ 021 \\ 120 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 0·5000 \end{array} \right.$	$\left\{ \begin{array}{l} 0·5000 \\ 2·0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0·5000 \\ 2·0000 \\ \infty \end{array} \right.$

Melinophan.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.6584 \quad \lg c = 981849 \quad \lg a_0 = 018151 \quad a_0 = 1.5188$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	o ∞	010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	n	∞ 3	130	18 26	"	90°00	"	18 26	71 34	0.3333	"	"
4	d	o $\frac{2}{3}$	023	0°00	23 42	0°00	23 42	0°00	23 42	o	0.4389	0.4389
5	e	01	011	"	33 21'	"	33 21'	"	33 21'	"	0.6584	0.6584
6	f	02	021	"	52 47	"	52 47	"	52 47	"	1.3167	1.3167
7	p	1	111	45 00	42 57'	33 21'	33 21'	28 48'	28 48'	0.6584	0.6584	0.9311
8	B	$\frac{1}{4}\frac{1}{2}$	124	26 34	20 12'	9 21	18 13'	8 51	17 55	0.1646	0.3292	0.3680

Mellit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.7463 \quad \lg c = 987291 \quad \lg a_0 = 012709 \quad a_0 = 1.340$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	o ∞	010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	m	∞	110	45 00	"	90°00	"	45 00	45 00	1.0000	"	"
4	e	01	011	0°00	36 44	0°00	36 44	0°00	36 44	o	0.7463	0.7463
5	r	1	111	45 00	46 32'	36 44	"	30 53	30 53	0.7463	"	1.0554

Mendipit.

Rhombisch.

$$\frac{p_0}{q_0} = 1.2482; \quad \lg \frac{p_0}{q_0} = 009629; \quad \frac{a}{b} = 0.8012$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	o ∞	010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	a	∞ o	100	90°00	"	90°00	0°00	90°00	0°00	∞	o	"
4	m	∞	110	51 18	"	"	90°00	51 18	38 42	1.2482	∞	"

Meneghinit.

Rhombisch.

a = 0°473	lga = 997649	lga ₀ = 014010	lgp ₀ = 985990	a ₀ = 1°3807	p ₀ = 0°7243
c = 0°6861	lgc = 983639	lgb ₀ = 016361	lgq ₀ = 983639	b ₀ = 1°4575	q ₀ = 0°6861

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tg e
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	k	6∞	610	81 01'	"	"	90 00	81 01'	8 58'	6'3337	∞	"
5	h	5∞	510	79 16'	"	"	"	79 16'	10 43'	5'2781	"	"
6	U	2∞	210	64 39'	"	"	"	64 39'	25 20'	2'1112	"	"
7	i	$\frac{7}{2}\infty$	740	61 34'	"	"	"	61 34'	28 25'	1'8473	"	"
8	g	$\frac{2}{3}\infty$	320	57 43'	"	"	"	57 43'	32 17'	1'5830	"	"
9	T	∞	110	46 33'	"	"	"	46 33'	43 27'	1'0556	"	"
10	f	$\frac{5}{6}\infty$	560	41 20'	"	"	"	41 20'	48 40'	0'8797	"	"
11	l	$\frac{4}{3}\infty$	340	38 22'	"	"	"	38 22'	51 38'	0'7917	"	"
12	S	$\frac{3}{2}\infty$	230	35 08'	"	"	"	35 08'	54 52'	0'7037	"	"
13	m	∞2	120	27 49'	"	"	"	27 49'	62 10'	0'5278	"	"
14	N	∞3	130	19 23'	"	"	"	19 23'	70 37'	0'3518	"	"
15	y	$0\frac{2}{3}$	038	0 00	14 25'	0 00	14 25'	0 00	14 25'	0	0'2573	0'2573
16	δ	$0\frac{5}{3}$	0'6'13	"	17 34'	"	17 34'	"	17 34'	"	0'3166	0'3166
17	d	$0\frac{2}{3}$	012	"	18 56'	"	18 56'	"	18 56'	"	0'3430	0'3430
18	o	$0\frac{2}{3}$	023	"	24 35'	"	24 35'	"	24 35'	"	0'4574	0'4574
19	θ	$0\frac{4}{3}$	045	"	28 45'	"	28 45'	"	28 45'	"	0'5489	0'5489
20	v	01	011	"	34 27'	"	34 27'	"	34 27'	"	0'6861	0'6861
21	w	05	051	"	73 45'	"	73 45'	"	73 45'	"	3'4305'	3'4305'
22	n	$\frac{1}{2}0$	102	90 00	19 52'	19 52'	0 00	19 52'	0 00	0'3613	0	0'3613
23	W	$\frac{2}{3}0$	203	"	25 46'	25 46'	"	25 46'	"	0'4828	"	0'4828
24	V	10	101	"	35 55'	35 55'	"	35 55'	"	0'7242	"	0'7242
25	q	$\frac{12}{11}0$	12'0'11	"	38 19'	38 19'	"	38 19'	"	0'7901	"	0'7901
26	p	1	111	46 33'	44 56'	35 55'	34 27'	30 51'	29 03'	0'7242	0'6861	0'9977
27	β	$1\frac{1}{2}$	212	64 39'	38 42'	"	18 56'	34 25'	15 31'	"	0'3430	0'8014
28	μ	$1\frac{1}{2}$	414	76 40'	36 39'	"	9 44'	35 31'	7 54'	"	0'1715	0'7443
29	r	$\frac{1}{2}1$	122	27 49'	37 48'	19 54'	34 27'	16 37'	32 49'	0'3621	0'6861	0'7758
30	e	$\frac{1}{2}1$	12'12'11	46 33'	47 25'	38 19'	36 49'	32 19'	30 25'	0'7901	0'7484	1'0883
31	ψ	$\frac{1}{2}3$	12'12'13	"	42 38'	33 46'	32 21'	29 27'	27 46'	0'6685	0'6333	0'9209
32	t	$\frac{1}{2}$	112	"	26 30'	19 54'	18 56'	18 54'	17 52'	0'3621	0'3430	0'4988
33	σ	$\frac{1}{11}\frac{6}{11}$	12'6'11	64 39'	41 09'	38 19'	20 31'	36 30'	16 22'	0'7901	0'3742	0'8743
34	λ	$\frac{12}{13}\frac{6}{13}$	12'6'13	"	36 29'	33 46'	17 34'	32 30'	14 45'	0'6685	0'3166	0'7398
35	u	$\frac{1}{2}1$	214	"	21 50'	19 54'	9 44'	19 38'	9 09'	0'3621	0'1715	0'4007
36	π	$\frac{12}{13}\frac{24}{13}$	12'24'13	27 49'	55 04'	33 46'	51 42'	22 30'	46 29'	0'6685	1'2667	1'4322
37	x	$\frac{12}{13}\frac{18}{13}$	12'18'13	35 08'	49 16'	"	43 32'	25 51'	38 18'	"	0'9500	1'1616
38	s	$\frac{1}{2}\frac{1}{2}$	234	"	32 11'	19 54'	27 14'	17 51'	25 49'	0'3621	0'5145	0'6292

Metacinnabarit.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ 0\infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	q	$\begin{cases} +\frac{1}{2} \\ +\frac{1}{2} \end{cases}$	$\begin{matrix} 112 \\ 121 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ 26^\circ 34 \end{matrix}$	$\begin{matrix} 35^\circ 16 \\ 65^\circ 54 \end{matrix}$	$\begin{matrix} 26^\circ 34 \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 26^\circ 34 \\ 63^\circ 26 \end{matrix}$	$\begin{matrix} 24^\circ 05' \\ " \end{matrix}$	$\begin{matrix} 24^\circ 05' \\ 54^\circ 44 \end{matrix}$	$\begin{matrix} 0'5000 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'5000 \\ 2'0000 \end{matrix}$	$\begin{matrix} 0'7071 \\ 2'2360 \end{matrix}$
3	n	$\begin{cases} +\frac{2}{3} \\ +1\frac{2}{3} \end{cases}$	$\begin{matrix} 223 \\ 232 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ 33^\circ 41' \end{matrix}$	$\begin{matrix} 43^\circ 19 \\ 60^\circ 59 \end{matrix}$	$\begin{matrix} 33^\circ 41' \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 33^\circ 41' \\ 56^\circ 18' \end{matrix}$	$\begin{matrix} 29^\circ 01 \\ " \end{matrix}$	$\begin{matrix} 29^\circ 01 \\ 46^\circ 41 \end{matrix}$	$\begin{matrix} 0'6667 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'6667 \\ 1'5000 \end{matrix}$	$\begin{matrix} 0'9428 \\ 1'8028 \end{matrix}$
4	pp'	$\begin{cases} +1 \end{cases}$	$\begin{matrix} 111 \end{matrix}$	$\begin{matrix} 45^\circ 00 \end{matrix}$	$\begin{matrix} 54^\circ 44 \end{matrix}$	$\begin{matrix} " \end{matrix}$	$\begin{matrix} 45^\circ 00 \end{matrix}$	$\begin{matrix} 35^\circ 16 \end{matrix}$	$\begin{matrix} 35^\circ 16 \end{matrix}$	$\begin{matrix} " \end{matrix}$	$\begin{matrix} 1'0000 \end{matrix}$	$\begin{matrix} 1'4142 \end{matrix}$

Miargyrit.

Monoklin.

a = 2'9945	lg a = 047632	lg a ₀ = 001251	lg p ₀ = 998749	a ₀ = 1'0292	p ₀ = 0'9716
c = 2'9095	lg c = 046381	lg b ₀ = 953618	lg q ₀ = 045887	b ₀ = 0'3437	q ₀ = 2'8767
$\mu_{180-\beta} = \begin{cases} 81^\circ 22' \end{cases}$	$\begin{cases} \lg h = \\ \lg \sin \mu \end{cases} 999506$	$\begin{cases} \lg c = \\ \lg \cos \mu \end{cases} 917691$	$\lg \frac{p_0}{q_0} = 952861$	h = 0'9887	e = 0'1503

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90° 00	8° 37'	8° 37'	0° 00	8° 37'	0° 00	0'1515'	0	0'1515'
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	l	2∞	210	34 02'	"	"	90 00	34 02'	55 57'	0'6755	∞	"
5	β	0 $\frac{1}{3}$	013	8 51'	44 32'	8 37'	44 12	6 12	43 52'	0'1515'	0'9723'	0'9841
6	ω	01	011	2 59'	71 06	"	71 04'	2 49	70 52'	"	2'9170	2'9210
7	n	$\begin{cases} +\frac{3}{0} \end{cases}$	301	90 00	72 07'	72 07'	0 00	72 07'	0 00	3'1001	0	3'1001
8	L	$\begin{cases} +\frac{7}{0} \end{cases}$	703	"	67 45'	67 45'	"	67 45'	"	2'4450'	"	2'4450'
9	m	$\begin{cases} +\frac{1}{0} \end{cases}$	101	"	48 37'	48 37'	"	48 37'	"	1'1347	"	1'1347
10	λ	$\begin{cases} +\frac{1}{2} 0 \end{cases}$	102	"	32 45'	32 45'	"	32 45'	"	0'6434	"	0'6434
11	θ	$\begin{cases} +\frac{1}{3} 0 \end{cases}$	103	"	25 37'	25 37'	"	25 37'	"	0'4796	"	0'4796
12	κ	$\begin{cases} +\frac{1}{4} 0 \end{cases}$	104	"	21 41'	21 41'	"	21 41'	"	0'3977	"	0'3977
13	G	$\begin{cases} +\frac{1}{3} 0 \end{cases}$	105	"	19 13	19 13	"	19 13	"	0'3485	"	0'3485
14	M	$\begin{cases} -\frac{1}{3} 0 \end{cases}$	103	90 00	9 57'	9 57'	"	9 57'	"	0'1755'	"	0'1755'
15	u	$\begin{cases} -\frac{2}{3} 0 \end{cases}$	203	"	26 42'	26 42'	"	26 42'	"	0'5031	"	0'5031
16	o	-10	101	"	39 43	39 43	"	39 43	"	0'8307	"	0'8307
17	R	-20	201	"	61 07'	61 07'	"	61 07'	"	1'8134	"	1'8134
18	N	-30	301	"	70 19'	70 19'	"	70 19'	"	2'7961	"	2'7961

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
19	μ	$-\frac{7}{2}0$	702	90° 00	73° 05	73° 05	0° 00	73° 05	0° 00	3·2875	0	3·2875
20	t	+1	111	21 18	72 15	48 37	71 02	20 15	62 32	1·1347	2·9095	3·1229
21	h	$+\frac{1}{3}$	113	26 19	47 15	25 37	44 07	19 00	41 10	0·4796	0·9698	1·0819
22	l	$-\frac{1}{3}$	113	10 16	44 35	9 57	"	7 11	43 41	0·1756	"	0·9856
23	A	-1	111	15 56	71 43	39 43	71 02	15 06	65 55	0·8307	2·9095	3·0256
24	E	$+\frac{1}{2}$	212	37 57	61 32	48 37	55 30	32 44	43 53	1·1347	1·4547	1·8449
25	r	+12	121	11 02	80 25	"	80 15	10 53	75 26	"	5·8189	5·9284
26	v	+18	181	2 47	87 32	"	87 32	2 47	86 17	"	23·2756	23·303
27	p	$-\frac{1}{6}$	616	59 43	43 53	39 43	25 52	36 46	20 27	0·8307	0·4849	0·9619
28	π	$-\frac{1}{2}$	515	54 59	45 25	"	30 12	35 41	24 07	"	0·5819	1·0142
29	γ	$-\frac{1}{4}$	414	48 48	47 50	"	36 02	33 53	29 13	"	0·7274	1·1041
30	g	$-\frac{1}{3}$	313	40 35	51 56	"	44 07	30 48	36 43	"	0·9698	1·2770
31	χ	$-\frac{1}{2}$	212	29 44	59 10	"	55 30	25 12	48 13	"	1·4547	1·6752
32	J	$-\frac{1}{6}$	676	13 45	74 02	"	73 35	13 13	69 02	"	3·3944	3·4945
33	B	+15·1	15·1·1	78 57	86 14	86 09	71 02	78 20	11 02	14·8930	2·9095	15·175
34	C	+8·1	8·1	70 03	83 18	82 53	"	69 00	19 49	8·0138	"	8·5257
35	D	+7·1	7·1	67 31	82 31	81 54	"	66 22	22 17	7·0310	"	7·6094
36	η	+6·1	6·1	64 18	81 32	80 37	"	63 02	25 23	6·0483	"	6·7117
37	F	+5·1	5·1	60 08	80 17	78 50	"	58 43	29 24	5·0655	"	5·8417
38	f	+3·1	922	57 32	79 33	77 40	"	56 05	31 51	4·5742	"	5·4211
39	φ	+4·1	4·1	54 31	78 43	76 14	"	53 00	34 41	4·0829	"	5·0135
40	d	+3·1	3·1	46 49	76 46	72 07	"	45 13	41 46	3·1001	"	4·2515
41	ε	+2·1	522	41 53	75 39	69 01	"	40 18	46 09	2·6088	"	3·9078
42	s	+2·1	211	36 03	74 28	64 43	"	34 32	51 10	2·1175	"	3·5985
43	X	+1·1	122	19 48	72 05	46 20	"	18 48	63 32	1·0494	"	3·0924
44	x	-1·1	122	6 39	71 09	18 44	"	6 17	70 03	0·3393	"	2·9292
45	σ	-2·1	211	31 55	73 44	61 07	"	30 30	54 34	1·8124	"	3·4278
46	i	-3·1	311	43 52	76 05	70 19	"	42 16	44 25	2·7961	"	4·0353
47	k	+1·1/2	124	15 19	56 27	21 41	55 29	12 42	53 30	0·3977	1·4547	1·5081
48	ξ	$-\frac{2}{3}\frac{1}{3}$	213	27 25	47 32	26 42	44 07	19 51	40 54	0·5031	0·9698	1·0925
49	S	$-\frac{1}{3}\frac{1}{3}$	36·13·39	37 54	50 52	37 03	"	28 27	37 44	0·7551	"	1·2291
50	ψ	$-\frac{4}{3}\frac{1}{3}$	413	50 03	56 30	49 12	"	39 44	32 22	1·1583	"	1·5106
51	q	-4·1/3	12·1·3	75 36	75 37	75 30	"	69 46	13 56	3·7812	"	3·9013
52	e	$-\frac{3}{4}\frac{1}{3}$	12·5·20	31 02	40 19	23 38	36 02	19 29	33 40	0·4375	0·7273	0·8488
53	ζ	$-\frac{2}{5}\frac{1}{3}$	215	22 30	32 12	13 33	30 12	11 46	29 30	0·2410	0·5819	0·6298
54	z	+1·1/7	137	13 08	52 00	16 13	51 16	10 19	50 08	0·2910	1·2469	1·2804
55	w	$-\frac{4}{3}\frac{1}{3}$	12·1·15	72 59	33 33	32 23	10 58	31 54	9 18	0·6342	0·1939	0·6632

Mikrolith.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011 110	" 45 00	45 00 90 00	" 90 00	45 00 90 00	" 45 00	45 00 "	" 1'0000	1'0000 ∞	1'0000 ∞
3	m	$\left\{ \begin{array}{l} \frac{1}{3} \\ 13 \end{array} \right.$	113 131	" 18 26	25 14' 72 27	18 26 45 00	18 26 71 34	17 33 "	17 33 64 45	0'3333 1'0000	0'3333 3'0000	0'4714 3'1623
4	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
5	u	$\left\{ \begin{array}{l} \frac{1}{2}1 \\ 2 \end{array} \right.$	122 221	26 34 45 00	48 11' 70 31'	26 34 63 26	" 63 26	19 28 41 48'	41 48' "	0'5000 2'0000	" 2'0000	1'1180 2'8284

Mikrosommit.

Hexagonal. Holoedrisch.

$$c = 1'449 \quad \lg c = 016107 \quad \lg a_0 = 007749 \quad \lg p_0 = 998498 \quad a_0 = 1'1953 \quad p_0 = 0'9660 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	t	2∞	2130	19 06'	"	"	"	19 06'	70 53'	0'3464	"	"
5	h	$\frac{2}{3}0$	2025	0 00	21 07'	0 00	21 07'	0 00	21 07'	0	0'3864	0'3864
6	i	$\frac{1}{2}0$	1012	"	25 47	"	25 47	"	25 47	"	0'4830	0'4830
7	x	10	1011	"	44 00'	"	44 00'	"	44 00'	"	0'9660	0'9660
8	z	20	2021	"	62 38	"	62 38	"	62 38	"	1'9320	1'9320

Milarit.

Hexagonal. Holoedrisch.

$$c = 1'1466 \quad \lg c = 005940 \quad \lg a_0 = 017916 \quad \lg p_0 = 988331 \quad a_0 = 1'5106 \quad p_0 = 0'7644 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	r	10	1011	0 00	37 23'	0 00	37 23'	0 00	37 23'	0	0'7644	0'7644
5	ξ	$\frac{1}{2}$	1122	30 00	33 30	18 19	29 49'	16 01'	28 33'	0'3310	0'5733	0'6620

Millerit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 0.3295 \quad \lg c = 951786 \quad \lg a_0 = 072070 \quad \lg p_0 = 934177 \quad a_0 = 5.2565 \quad p_0 = 0.2197 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ_0	η_0	ξ	η	x (Prismen) (x:y)	y	d =tge
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	k	4 ∞	4150	10 53'	"	"	"	10 53'	79 06'	0.1924	"	"
5	e	$-\frac{1}{2}$	1122	30 00	10 46'	5 26'	9 21'	5 21'	9 19'	0.0951	0.1647	0.1902
6	r r ₁	± 1	1121	"	20 50'	10 46'	18 14'	10 14'	17 56'	0.1902	0.3295	0.3805
7	t	-3	3361	"	48 46'	29 43'	44 40'	22 05'	40 39'	0.5707	0.9885	1.1414

Mimetesit.

Hexagonal. Pyramidal-hemiedrisch.

$$c = 1.260 \quad \lg c = 010037 \quad \lg a_0 = 013819 \quad \lg p_0 = 992428 \quad a_0 = 1.3746 \quad p_0 = 0.8400 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ_0	η_0	ξ	η	x (Prismen) (x:y)	y	d =tge
1	c	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	h	2 ∞	2130	19 06'	"	"	"	19 06'	70 53'	0.3464	"	"
5	x	10	1011	0 00	40 02	0 00	40 02	0 00	40 02	o	0.8400	0.8400
6	y	20	2021	"	59 14	"	59 14	"	59 14	"	1.6800	1.6800
7	π	40	4041	"	73 25'	"	73 25'	"	73 25'	"	3.3600	3.3600
8	s	1	1121	30 00	55 30'	36 02'	51 34'	24 20'	45 32'	0.7275	1.2600	1.4549
9	m	21	2131	19 06'	65 46'	"	64 32'	17 22'	59 30'	"	2.1000	2.2224

Molybdänglanz.

Hexagonal. Holoedrisch. (?)

$$c = 1.54 \quad \lg c = 018752 \quad \lg a_0 = 005104 \quad \lg p_0 = 001143 \quad a_0 = 1.1247 \quad p_0 = 1.0267 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ_0	η_0	ξ	η	x (Prismen) (x:y)	y	d =tge
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	x	30	3031	0 00	72 00	0 00	72 00	0 00	72 00	o	3.0776	3.0776

Molybdit.

Rhombisch.

$a = 0.3874$	$\lg a = 958816$	$\lg a_0 = 991174$	$\lg p_0 = 008826$	$a_0 = 0.8161$	$p_0 = 1.2253$
$c = 0.4747$	$\lg c = 967642$	$\lg b_0 = 032358$	$\lg q_0 = 967642$	$b_0 = 2.1066$	$q_0 = 0.4747$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	∞∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	0 00	90 00	0 00	90 00	0 00	∞	0	"
4	μ	$\frac{4}{3}\infty$	430	73 48	90 00	"	90 00	73 48	16 12	3'4417	∞	"
5	m	$\frac{1}{2}\infty$	110	68 49'	"	"	"	68 49'	21 10'	2'5813	"	"
6	t	$\frac{1}{3}\infty$	103	90 00	22 13	22 13	0 00	22 13	0 00	0'4084	0	0'4084
7	s	$\frac{1}{2}\infty$	102	"	31 29'	31 29'	"	31 29'	"	0'6127	"	0'6127
8	r	$\frac{1}{3}\infty$	203	"	39 14'	39 14'	"	39 14'	"	0'8169	"	0'8169

Monazit.

Monoklin.

$a = 0.9693$	$\lg a = 998646$	$\lg a_0 = 002004$	$\lg p_0 = 997996$	$a_0 = 1.0472$	$p_0 = 0.9549$
$c = 0.9256$	$\lg c = 996642$	$\lg b_0 = 003358$	$\lg q_0 = 995395$	$b_0 = 1.0804$	$q_0 = 0.8994$
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 76^\circ 20'$	$\lg h = \left. \begin{matrix} 1 \\ \lg \sin \mu \end{matrix} \right\} 998753$	$\lg e = \left. \begin{matrix} 1 \\ \lg \cos \mu \end{matrix} \right\} 937341$	$\lg \frac{p_0}{q_0} = 002601$	$h = 0.9717$	$e = 0.2363$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tge
1	c	0	001	90°00	13°40	13°40	0°00	13°40	0°00	0'2431	0	0'2431
2	b	∞∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	y	3∞	310	72 34	"	"	90 00	72 34	17 26	3'1851	∞	"
5	l	2∞	210	64 47	"	"	"	64 47	25 13	2'1234'	"	"
6	m	∞	110	46 43	"	"	"	46 43	43 17	1'0617	"	"
7	n	$\infty 2$	120	27 58	"	"	"	27 58	62 02	0'5308'	"	"
8	g	$0\frac{1}{2}$	012	27 43	27 36	13 40	24 50	12 26'	24 13	0'2431'	0'4628	0'5228
9	e	01	011	14 43	43 44'	"	42 47	10 07	41 58	"	0'9256	0'9570
10	u	02	021	7 29	61 49'	"	61 37'	6 35'	60 56	"	1'8515	1'8671
11	q	+70	701	90 00	82 00'	82 00'	0 00	82 00'	0 00	7'1222	0	7'1222
12	w	+10	101	"	50 48	50 48	"	50 48	"	1'2258'	"	1'2258'

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
13	?h	+ $\frac{3}{2}0$	305	90°00	39°47	39°47	0°00	39°47	0°00	0·8328	0	0·8328
14	x	-10	101	90 00	36 29	36 29	"	36 29	"	0·7395	"	0·7395
15	r	+1	111	52 57	56 56	50 48	42 47	41 58	30 20	1·2259	0·9256	1·5361
16	p	+21	211	67 16	67 20	65 38	"	58 19	20 54	2·2086	"	2·3947
17	z	-31	311	71 06	70 43	69 43	"	63 16	17 48	2·7049	"	2·8590
18	i	-21	211	61 45	62 55	59 51	"	51 39	24 55	1·7222	"	1·9552
19	v	-1	111	38 37	49 50	36 29	"	28 29	36 39	0·7395	"	1·1847
20	s	+12	121	33 31	65 45	50 48	61 37	30 13	49 29	1·2259	1·8512	2·2203
21	t	-1 $\frac{1}{2}$	212	57 58	41 06	36 29	24 50	33 52	20 24	0·7395	0·4628	0·8724
22	o	-12	121	21 46	63 21	"	61 37	19 22	56 06	"	1·8512	1·9934
23	f	+ $\frac{1}{2}$	112	57 47	40 58	36 18	24 50	33 41	20 27	0·7345	0·4628	0·8682
24	d	- $\frac{1}{2}$	112	28 12	27 42	13 56	"	12 41	24 11	0·2481	"	0·5251

Monimolit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ 0\infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	d	$\begin{cases} 01 \\ \infty \end{cases}$	$\begin{matrix} 011 \\ 110 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 90 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ " \end{matrix}$	$\begin{matrix} " \\ 1'0000 \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$
3	m	$\begin{cases} \frac{1}{3} \\ 13 \end{cases}$	$\begin{matrix} 113 \\ 131 \end{matrix}$	$\begin{matrix} " \\ 18 26 \end{matrix}$	$\begin{matrix} 25 14' \\ 72 27 \end{matrix}$	$\begin{matrix} 18 26 \\ 45 00 \end{matrix}$	$\begin{matrix} 18 26 \\ 71 34 \end{matrix}$	$\begin{matrix} 17 33 \\ " \end{matrix}$	$\begin{matrix} 17 33 \\ 64 45' \end{matrix}$	$\begin{matrix} 0'3333 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'3333 \\ 3'0000 \end{matrix}$	$\begin{matrix} 0'4714 \\ 3'1623 \end{matrix}$
4	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142

Mordenit.

Monoklin.

a = 0·5013	lga = 970010	lga ₀ = 967080	lgp ₀ = 032920	a ₀ = 0·4686	p ₀ = 2·1340
c = 1·0698	lgc = 002930	lgb ₀ = 997070	lgq ₀ = 002915	b ₀ = 0·9347	q ₀ = 1·0694
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 88^\circ 30$	$\left. \begin{matrix} lgh \\ \lg \sin \mu \end{matrix} \right\} 999985$	$\left. \begin{matrix} lge \\ \lg \cos \mu \end{matrix} \right\} 841792$	$\lg \frac{p_0}{q_0} = 030005$	h = 0·9996	e = 0·0262

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	1°30	1°30	0°00	1°30	0°00	0·0262	0	0·0262
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	l	∞	110	63 23	"	90 00	"	63 23	26 37	1·9955	"	"
4	t	+10	101	90 00	65 10	65 10	0 00	65 10	0 00	2·1610	0	2·1610
5	s	-10	101	90 00	64 37	64 37	"	64 37	"	2·1085	"	2·1085

Nadorit.

Rhombisch.

$a = 0.8881$	$\lg a = 994846$	$\lg a_0 = 980523$	$\lg p_0 = 019478$	$a_0 = 0.6386$	$p_0 = 1.9660$
$c = 1.3907$	$\lg c = 014323$	$\lg b_0 = 985677$	$\lg q_0 = 014323$	$b_0 = 0.7191$	$q_0 = 1.3907$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	0∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	r	2∞	210	66 03'	"	"	90 00	66 03'	23 56'	2'2520	∞	"
4	q	∞	110	48 23'	"	"	"	48 23'	41 36'	1'1260	"	"
5	p	$\infty 2$	120	29 23	"	"	"	29 23	60 37	0'5630	"	"
6	θ	$0\frac{1}{3}$	013	0 00	24 52	0 00	24 52	0 00	24 52	0	0'4635	0'4635
7	η	01	011	"	54 17	"	54 17	"	54 17	"	1'3906	1'3906
8	e	$0\frac{2}{3}$	053	"	66 40	"	66 40	"	66 40	"	2'3178	2'3178
9	ζ	02	021	"	70 13'	"	70 13'	"	70 13'	"	2'7813	2'7813
10	ε	$0\frac{2}{3}$	073	"	72 52'	"	72 52'	"	72 52'	"	3'2450	3'2450
11	δ	$0\frac{1}{3}$	0'11'3	"	78 54	"	78 54	"	78 54	"	5'0991	5'0991
12	?x	13	131	20 34'	77 21	57 26'	76 31'	20 03	66 00	1'5660	4'1721	4'4562
13	?y	$1\frac{2}{3}$	292	14 03	81 11'	"	80 55'	13 53	73 28	"	6'2580	6'4510
14	s	$\frac{2}{3}1$	233	36 53'	60 06	46 14	54 17	31 22	43 53'	1'0440	1'3907	1'7390

Nagyagit.

Rhombisch.

$a = 0.9836$	$\lg a = 999282$	$\lg a_0 = 974211$	$\lg p_0 = 025789$	$a_0 = 0.5522$	$p_0 = 1.8109$
$c = 1.7812$	$\lg c = 025071$	$\lg b_0 = 974929$	$\lg q_0 = 025071$	$b_0 = 0.5614$	$q_0 = 1.7812$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	B	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	∞	110	45°28'	90 00	90 00	90 00	45 28'	44 31'	1'0166	∞	∞
3	o	$0\frac{1}{3}$	013	0 00	30 42	0 00	30 42	0 00	30 42	0	0'5937	0'5937
4	i	$0\frac{2}{3}$	023	"	49 54	"	49 54	"	49 54	"	1'1876	1'1876
5	e	01	011	"	60 41'	"	60 41'	"	60 41'	"	1'7812	1'7812
6	h	02	021	"	74 19	"	74 19	"	74 19	"	3'5624	3'5624
7	g	$\frac{2}{3}0$	205	90 00	35 55	35 55	0 00	35 55	0 00	0.7243	0	0'7243
8	f	$\frac{2}{3}0$	203	"	50 22	50 22	"	50 22	"	1'2073	"	1'2073
9	d	$\frac{2}{3}0$	201	"	74 34	74 34	"	74 34	"	3'6217	"	3'6217

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
10	u	$\frac{1}{2}$	112	45° 28'	51° 47'	42° 09'	41° 41'	34° 04'	33° 26'	0'9054	0'8906	1'2700
11	q	$\frac{2}{3}$	223	"	59 26	50 22	49 54	37 52	37 08'	1'2072	1'1875	1'6934
12	p	$\frac{4}{5}$	445	"	63 48	55 23	54 56'	39 46	38 59'	1'4487	1'4250	2'0320
13	r	1	111	"	68 30'	61 05'	60 41'	41 33'	40 44	1'8109	1'7812	2'5400
14	s	$\frac{3}{2}$	332	"	75 17'	69 47'	69 29	43 36	42 42'	2'7163	2'6717	3'8101
15	t	$\frac{2}{2}$	221	"	78 52	74 34	74 19	44 23	43 28'	3'6165	3'5624	5'0801

Nantokit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ 0\infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	— 0° 00	0° 00 90 00	0° 00 "	0° 00 90 00	0° 00 "	0° 00 90 00	0 "	0 ∞	0 ∞
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1'0000	1'0000	1'4142

Natrolith.

Rhombisch.

a = 0'9811	lg a = 999171	lg a ₀ = 044480	lg p ₀ = 955520	a ₀ = 2'7848	p ₀ = 0'3591
c = 0'3523	lg c = 954691	lg b ₀ = 045309	lg q ₀ = 954691	b ₀ = 2'8385	q ₀ = 0'3525

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	0 ∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	l	6 ∞	610	80 43	"	"	90 00	80 43	9 17	6'1155	∞	"
5	δ	3 ∞	310	71 53'	"	"	"	71 53'	18 06'	3'0577	"	"
6	i	$\frac{7}{4}\infty$	740	60 43'	"	"	"	60 43'	29 16'	1'7837	"	"
7	m	∞	110	45 33	"	"	"	45 33	44 27	1'0192	"	"
8	k	$\infty\frac{2}{3}$	590	29 31	"	"	"	29 31	60 29	0'5662	"	"
9	n	$\infty\frac{2}{2}$	120	27 00	"	"	"	27 00	63 00	0'5096	"	"
10	g	01	011	0 00	19 24'	0 00	19 24'	0 00	19 24'	0	0'3523	0'3523
11	h	03	031	"	46 35	"	46 35	"	46 35	"	1'0569	1'0569
12	D	10	101	90 00	19 24'	19 24'	0 00	19 24'	0 00	0'3523	0	0'3523
13	u	30	301	"	46 39	46 39	"	46 39	"	1'0569	"	1'0569
14	v	60	601	"	64 41	64 41	"	64 41	"	2'1138	"	2'1138
15	p	1	111	45 33	26 42'	19 45	19 24'	18 42'	18 20'	0'3591	0'3523	0'5031

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
16	w	2	221	45° 33	45° 10'	35° 41'	35° 10'	30° 25'	29° 47'	0'7182	0'7046	1'0061
17	z	3	331	"	56 28	47 08	46 35	36 31	35 43	1'0772	1'0569	1'5091
18	s	5	551	"	68 19	60 53	60 25	41 33	40 36	1'7954	1'7615	2'5152
19	y	13	131	18 46	48 06'	21 02'	46 35	13 52	44 51	0'3590	1'0569	1'1162
20	β	31	311	71 53'	48 34'	47 08	19 24'	45 27'	13 28'	1'0772	0'3523	1'1334
21	α	51	511	78 54	61 20'	60 53	"	59 26	9 43'	1'7954	"	1'8297
22	f	39	391	18 46	73 22'	47 08	72 29'	17 57	65 07'	1'0772	3'1707	3'3487

Natronsalpeter.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 0.8266 \quad \lg c = 991730 \quad \lg a_0 = 032126 \quad \lg p_0 = 974121 \quad a_0 = 2.0954 \quad p_0 = 0.5511 \quad (G_2)$$

N ^o .	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	p	1	1121	30° 00	43° 40	25° 31	39° 34'	20° 12	36° 43'	0'4772	0'8266	0'9545

Nephelin.

Hexagonal. Holoedrisch.

$$c = 1.453 \quad \lg c = 016227 \quad \lg a_0 = 007629 \quad \lg p_0 = 998618 \quad a_0 = 1.1920 \quad p_0 = 0.9687 \quad (G_1)$$

N ^o .	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	∞ 0	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	t	2∞	2130	19 06'	"	"	"	19 06'	70 53'	0'3464	"	"
5	h	$\frac{2}{3}0$	2025	0 00	21 16	0 00	21 16	0 00	21 16	0	0'3893	0'3893
6	i	$\frac{1}{2}0$	1012	"	25 50'	"	25 50'	"	25 50'	"	0'4843	0'4843
7	k	$\frac{2}{3}0$	2023	"	32 51	"	32 51	"	32 51	"	0'6458	0'6458
8	x	10	1011	"	44 05'	"	44 05'	"	44 05'	"	0'9687	0'9687
9	z	20	2021	"	62 42	"	62 42	"	62 42	"	1'9374	1'9374
10	l	40	4041	"	75 31'	"	75 31'	"	75 31'	"	3'8747	3'8747
11	n	60	6061	"	80 14	"	80 14	"	80 14	"	5'8120	5'8120
12	e	1	1121	30 00	59 12	39 59'	55 28	25 26	48 04	0'8389	1'4530	1'6778
13	f	2	2241	"	73 24'	59 12	71 00'	28 38	56 05'	1'6778	2'9060	3'3556

Neptunit.

Monoklin.

$a = 1.3164$	$\lg a = 0.11939$	$\lg a_o = 0.21225$	$\lg p_o = 9.78775$	$a_o = 1.6302$	$p_o = 0.6134$
$c = 0.8075$	$\lg c = 9.90714$	$\lg b_o = 0.09286$	$\lg q_o = 9.86214$	$b_o = 1.2384$	$q_o = 0.7280$
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 64^\circ 22$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 9.95500$	$\lg e = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 9.63610$	$\lg \frac{p_o}{q_o} = 9.92561$	$h = 0.9016$	$e = 0.4326$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	c	o	001	90° 00	25° 38	25° 38	0° 00	25° 38	0° 00	0.4798	o	0.4798
2	b	o∞	010	o 00	90 00	o 00	90 00	o 00	90 00	o	∞	∞
3	a	∞ 0	100	90 00	o 00	90 00	o 00	90 00	o 00	∞	o	"
4	m	∞	110	40 07	90 00	"	90 00	40 07	49 53	0.8426	∞	"
5	e	-20	201	90 00	41 22'	41 22'	o 00	41 22'	o 00	0.8809	o	0.8809
6	d	-30	301	"	57 21'	57 21'	"	57 21'	"	1.5613	"	1.5613
7	s	+1	111	55 10	54 43'	49 14'	38 55	42 04'	27 48	1.1602	0.8075	1.4135
8	o	-1	111	13 57	39 45'	11 20'	"	8 52	38 22	0.2005	"	0.8320
9	v	+2	221	48 44	67 47	61 29	58 14	44 06	37 38	1.8405	1.6150	2.4487
10	u	$-\frac{5}{2}$	512	71 42	52 08	50 41	21 59	48 33	14 21	1.2211	0.4037	1.2861

Nesquehonit.

Rhombisch.

$a = 0.645$	$\lg a = 9.80956$	$\lg a_o = 0.14983$	$\lg p_o = 9.85017$	$a_o = 1.4120$	$p_o = 0.7082$
$c = 0.4568$	$\lg c = 9.65973$	$\lg b_o = 0.34027$	$\lg q_o = 9.65973$	$b_o = 2.1891$	$q_o = 0.4568$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	b	o∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	57 11	"	90 00	"	57 11	32 49	1.5503	"	"
4	d	01	011	o 00	24 33	o 00	24 33	o 00	24 33	o	0.4568	0.4568

Newberyit.

Rhombisch.

a = 0·9548	lg a = 997991	lg a _o = 000863	lg p _o = 999137	a _o = 1·0201	p _o = 0·9803
c = 0·9360	lg c = 997128	lg b _o = 002872	lg q _o = 997128	b _o = 1·0684	q _o = 0·9360

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	o∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞o	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"
4	l	2∞	210	64 29	"	"	90 00	64 29	25 31	2·0947	∞	"
5	v	$\frac{2}{3}\infty$	320	57 31	"	"	"	57 31	32 28	1·5710	"	"
6	n	$\frac{5}{2}\infty$	750	55 42	"	"	"	55 42	34 17	1·4663	"	"
7	t	$\frac{4}{3}\infty$	430	54 23	"	"	"	54 23	35 36	1·3964	"	"
8	m	∞	110	46 19	"	"	"	46 19	43 40	1·0473	"	"
9	g	01	011	o 00	43 06	o 00	43 06	o 00	43 06	o	0·9360	0·9360
10	f	02	021	"	61 53	"	61 53	"	61 53	"	1·8720	1·8720
11	e	$\frac{1}{2}0$	102	90 00	26 07	26 07	o 00	26 07	o 00	0·4901	o	0·4901
12	d	10	101	"	44 26	44 26	"	44 26	"	0·9803	"	0·9803
13	q	$\frac{3}{2}0$	302	"	55 47	55 47	"	55 47	"	1·4705	"	1·4705
14	s	21	722	74 44	74 17	73 45	43 06	68 14	14 40	3·4312	0·9360	3·5566
15	r	$\frac{2}{1}0$	211	64 29	65 17	62 58	"	55 03	23 02	1·9606	"	2·1726
16	o	1	111	46 19	53 35	44 26	"	35 35	33 45	0·9803	"	1·3554
17	h	$\frac{3}{2}0$	223	"	42 06	33 10	31 58	29 00	27 35	0·6535	0·6240	0·9036
18	p	$\frac{1}{2}0$	112	"	34 07	26 07	25 05	23 56	22 47	0·4901	0·4680	0·6777

Nickelvitriol.

Rhombisch.

a = 0·9817	lg a = 999201	lg a _o = 023950	lg p _o = 976050	a _o = 1·7358	p _o = 0·5761
c = 0·5656	lg c = 975251	lg b _o = 024749	lg q _o = 975251	b _o = 1·7680	q _o = 0·5656

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	b	o∞	010	0°00	90°00	0°00	90°00	0°00	90°00	o	∞	∞
2	m	∞	110	45 31	"	90 00	"	45 31	44 28	1·0186	"	"
3	f	∞2	120	26 29	"	"	"	26 29	63 30	0·5093	"	"
4	v	01	011	o 00	29 29	o 00	29 29	o 00	29 29	o	0·5656	0·5656
5	r	02	021	"	48 31	"	48 31	"	48 31	"	1·1312	1·1312
6	n	10	101	90 00	29 57	29 57	o 00	29 57	o 00	0·5761	o	0·5761
7	x	20	201	"	49 02	49 02	"	49 02	"	1·1522	"	1·1522
8	z	1	111	45 31	38 55	29 57	29 29	26 38	26 06	0·5761	0·5656	0·8074
9	t	12	121	26 59	51 46	"	48 31	20 53	44 25	"	1·1312	1·2694
10	s	21	211	63 51	52 05	49 03	29 29	45 05	20 21	1·1522	0·5656	1·2835

Nordenskjöldin.

Hexagonal. Rhomboedrisc-hemledrisc

$$c = 0.8221 \quad \lg c = 991492 \quad \lg a_0 = 032364 \quad \lg p_0 = 973883 \quad a_0 = 2.1069 \quad p_0 = 0.5481 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞o	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	p	1	1121	30 00	43 31'	25 23'	39 25'	20 08	36 36	0.4746	0.8221	0.9493

Nosean.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	c	{ o ∞	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	o "	o ∞	o ∞
2	d	{ 01 ∞	011 110	" 45 00	45 00 90 00	" 90 00	45 00 90 00	" 45 00	45 00 "	" 1.0000	1.0000 ∞	1.0000 ∞

Ochrolith.

Rhombisch.

$$a = 0.9050 \quad \lg a = 995665 \quad \lg a_0 = 965264 \quad \lg p_0 = 034736 \quad a_0 = 0.4494 \quad p_0 = 2.2251$$

$$c = 2.0138 \quad \lg c = 030401 \quad \lg b_0 = 969599 \quad \lg q_0 = 030401 \quad b_0 = 0.4966 \quad q_0 = 2.0138$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	e	01	011	0°00	63 35'	"	63 35'	"	63 35'	"	2.0138	2.0138
3	d	10	101	90 00	65 48	65 48	0 00	65 48	0 00	2.2251	o	2.2251

Oldhamit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ 0\infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	— 0°00	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$

Olivenit.

Rhombisch.

a = 0°9485	lg a = 997704	lg a ₀ = 014389	lg p ₀ = 985610	a ₀ = 1°3928	p ₀ = 0°7180
c = 0°6810	lg c = 983315	lg b ₀ = 016685	lg q ₀ = 983315	b ₀ = 1°4684	q ₀ = 0°6810

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	b	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	m	∞	110	46 31	"	"	90 00	46 31	43 29	1°0542	∞	"
4	f	0 $\frac{1}{3}$	013	0 00	12 47'	0 00	12 47'	0 00	12 47'	0	0°2270	0°2270
5	e	01	011	"	34 15'	"	34 15'	"	34 15'	"	0°6810	0°6810
6	v	10	101	90 00	35 40'	35 40'	0 00	35 40'	0 00	0°7179	0	0°7179

Olivin-Gruppe¹⁾

Olivin. Chrysolith. Forsterit. Hyalosiderit.

Titanolivin.

Rhombisch.

a = 0°4658	lg a = 966820	lg a ₀ = 989993	lg p ₀ = 010007	a ₀ = 0°7942	p ₀ = 1°2591
c = 0°5865	lg c = 976827	lg b ₀ = 023173	lg q ₀ = 976827	b ₀ = 1°7050	q ₀ = 0°5865

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0 ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	c	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	(m)	2 ∞	210	76 53'	"	"	90 00	76 53'	13 06'	4°2937	∞	"
5	u	$\frac{2}{3}\infty$	540	69 34'	"	"	"	69 34'	20 26'	2°6835	"	"
6	(v)	$\frac{1}{9}\infty$	10°9'0	67 15'	"	"	"	67 15'	22 44'	2°3853	"	"

¹⁾ Die Formen mit Buchstaben in Klammern () sind nicht bei dieser, wohl aber bei anderen Olivin-Arten beobachtet.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
7	n	∞	110	65° 01'	90° 00	90° 00	90° 00	65° 01'	24° 58'	2:1468	∞	∞
8	(x)	$\infty \frac{3}{2}$	230	55 03'	"	"	"	55 03'	34 56'	1:4312	"	"
9	s	$\infty 2$	120	47 01'	"	"	"	47 01'	42 58'	1:0734	"	"
10	r	$\infty 3$	130	35 35'	"	"	"	35 35'	54 24'	0:7156	"	"
11	z	$\infty 4$	140	28 13'	"	"	"	28 13'	61 46'	0:5345	"	"
12	(y)	$\infty 5$	150	23 14	"	"	"	23 14	66 46	0:4293	"	"
13	w	$0 \frac{1}{2}$	012	0 00	16 20'	0 00	16 20'	0 00	16 20'	0	0:2932	0:2932
14	h	01	011	"	30 23'	"	30 23'	"	30 23'	"	0:5865	0:5865
15	(p)	$0 \frac{3}{2}$	032	"	41 20'	"	41 20'	"	41 20'	"	0:8797	0:8797
16	k	02	021	"	49 33	"	49 33	"	49 33	"	1:1730	1:1730
17	i	04	041	"	66 55	"	66 55	"	66 55	"	2:3460	2:3460
18	β	$\frac{1}{6}$	106	90 00	11 51	11 51	0 00	11 51	"	0:2098	0	0:2098
19	v	$\frac{1}{2} 0$	102	"	32 11'	32 11'	"	32 11'	"	0:6295	"	0:6295
20	γ	$\frac{2}{3} 0$	203	"	40 00'	40 00'	"	40 00'	"	0:8392	"	0:8392
21	d	10	101	"	51 32'	51 32'	"	51 32'	"	1:2591	"	1:2591
22	l	13	131	35 35'	65 12	"	60 23'	31 53'	47 34'	"	1:7595	2:1636
23	f	12	121	47 01'	59 50'	"	49 33	39 14'	36 06'	"	1:1730	1:7204
24	e	1	111	65 01'	54 15	"	30 23'	47 22	20 02'	"	0:5865	1:3890
25	g	$1 \frac{1}{2}$	212	67 53'	52 16'	"	16 20'	50 23	10 20	"	0:2932	1:2928
26	o	$\frac{1}{2}$	112	65 01'	34 47	32 11'	"	31 08	13 56	0:6295	"	0:6945
27	q	$\frac{1}{6}$	116	"	13 02	11 51	5 35	11 48	5 28	0:2098	0:0977	0:2315
28	α	$\frac{2}{3} \frac{1}{3}$	213	67 53'	40 45'	40 00'	11 03'	39 29	8 31	0:8394	0:1955	0:8619

Olivin-Gruppe¹⁾

Fayalit.

Rhombisch.

a = 0.460	lg a = 966276	lg a ₀ = 990008	lg p ₀ = 009992	a ₀ = 0.7945	p ₀ = 1.2587
c = 0.579	lg c = 976268	lg b ₀ = 023732	lg q ₀ = 976268	b ₀ = 1.7271	q ₀ = 0.5790

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	b	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	0 ∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	c	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	(m)	2 ∞	210	77 03	"	"	90 00	77 03	12 57	4:3478	∞	"
5	(u)	$\frac{2}{3} \infty$	540	69 48	"	"	"	69 48	20 12	2:7173	"	"
6	(v)	$\frac{10}{9} \infty$	10:9:0	67 30'	"	"	"	67 30'	22 29'	2:4154	"	"

¹⁾ Vgl. Fußnote S. 251.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
7	n	∞	110	65° 18'	90° 00'	90° 00'	90° 00'	65° 18'	24° 42'	2'1739	∞	∞
8	x	$\infty \frac{3}{2}$	230	55 23'	"	"	"	55 23'	34 36'	1'4492	"	"
9	s	$\infty 2$	120	47 23	"	"	"	47 23	42 37	1'0869	"	"
10	r	$\infty 3$	130	35 55'	"	"	"	35 55'	54 04'	0'7246	"	"
11	(z)	$\infty 4$	140	28 31'	"	"	"	28 31'	61 28'	0'5434	"	"
12	y	$\infty 5$	150	23 30	"	"	"	23 30	66 30	0'4348	"	"
13	(w)	$0 \frac{1}{2}$	012	0 00	16 09	0 00	16 09	0 00	16 09	0	0'2895	0'2895
14	h	$0 1$	011	"	30 04	"	30 04	"	30 04	"	0'5790	0'5790
15	(p)	$0 \frac{3}{2}$	032	"	40 58'	"	40 58'	"	40 58'	"	0'8685	0'8685
16	k	02	021	"	49 11	"	49 11	"	49 11	"	1'1580	1'1580
17	(i)	04	041	"	66 39	"	66 39	"	66 39	"	2'3160	2'3160
18	(β)	$\frac{1}{6} 0$	106	90 00	11 51	11 51	0 00	11 51	0 00	0'2098	0	0'2098
19	(v)	$\frac{1}{2} 0$	102	"	32 11	32 11	"	32 11	"	0'6293	"	0'6293
20	(γ)	$\frac{2}{3} 0$	203	"	40 00	40 00	"	40 00	"	0'8391	"	0'8391
21	d	10	101	"	51 32	51 32	"	51 32	"	1'2587	"	1'2587
22	l	13	131	35 55'	65 00'	"	60 04	32 08	47 13	"	1'7370	2'1451
23	f	12	121	47 23	59 41	"	49 11'	39 26'	35 46	"	1'1580	1'7103
24	e	1	111	65 18	54 11	"	30 04	47 27	19 48'	"	0'5790	1'3855
25	(g)	$1 \frac{1}{2}$	212	77 03	52 15	"	16 08'	50 24'	10 12'	"	0'2895	1'2915
26	(o)	$\frac{1}{2} \frac{1}{2}$	112	65 18	34 42'	32 11	"	31 09	13 46	0'6293	"	0'6927
27	(q)	$\frac{1}{6}$	116	"	13 00	11 50'	5 30'	11 47'	5 24	0'2098	0'0965	0'2309
28	(a)	$\frac{2}{3} \frac{1}{3}$	213	77 03	40 44	40 00	10 55'	39 29	8 24'	0'8391	0'1930	0'8610

Olivin-Gruppe¹⁾ Monticellit.

Rhombisch.

a = 0'4337	lg a = 963719	lg a ₀ = 987699	lg p ₀ = 012301	a ₀ = 0'7533	p ₀ = 1'3274
c = 0'5757	lg c = 976020	lg b ₀ = 023980	lg q ₀ = 976020	b ₀ = 1'7370	q ₀ = 0'5757

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	(b)	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	a	0 ∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	c	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	(m)	2 ∞	210	77 46	"	"	90 00	77 46	12 14	4'6114	∞	"
5	(u)	$\frac{3}{2} \infty$	540	70 52	"	"	"	70 52	19 08	2'8822	"	"
6	(r)	$1 \frac{0}{9} \infty$	10'9'0	68 40'	"	"	"	68 40'	21 19'	2'5619	"	"

¹⁾ Vgl. Fußnote S. 251.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
7	n	∞	110	66° 33'	90° 00'	90° 00'	90° 00'	66° 33'	23° 27'	2:3057	∞	∞
8	(x)	$\infty \frac{2}{3}$	230	56 57	"	"	"	56 57	33 03	1:5371	"	"
9	s	$\infty 2$	120	49 03'	"	"	"	49 03'	40 56'	1:1528	"	"
10	(r)	$\infty 3$	130	37 32'	"	"	"	37 32'	52 27'	0:7685	"	"
11	(z)	$\infty 4$	140	29 57'	"	"	"	29 57'	60 02'	0:5764	"	"
12	(y)	$\infty 5$	150	24 45'	"	0 00	"	24 45'	65 14'	0:4611	"	"
13	(w)	$0 \frac{1}{2}$	012	0 00	16 03'	"	16 03'	0 00	16 03'	0	0:2878	0:2878
14	h	01	011	"	29 56	"	29 56	"	29 56	"	0:5757	0:5757
15	(p)	$0 \frac{2}{3}$	032	"	40 49	"	40 49	"	40 49	"	0:8635	0:8635
16	k	02	021	"	49 01'	"	49 01'	"	49 01'	"	1:1514	1:1514
17	(i)	04	041	"	66 31'	"	66 31'	"	66 31'	"	2:3028	2:3028
18	(β)	$\frac{1}{2} 0$	106	90 00	12 28'	12 28'	0 00	12 28'	0 00	0:2212	0	0:2212
19	(v)	$\frac{1}{2} 0$	102	"	33 34'	33 34'	"	33 34'	"	0:6637	"	0:6637
20	(γ)	$\frac{2}{3} 0$	203	"	41 30'	41 30'	"	41 30'	"	0:8849	"	0:8849
21	d	10	101	"	53 00'	53 00'	"	53 00'	"	1:3274	"	1:3274
22	(l)	13	131	37 32'	65 20'	"	59 56	33 37'	46 14'	"	1:7271	2:1782
23	f	12	121	49 03'	60 21'	"	49 01'	41 02'	34 43	"	1:1514	1:7572
24	e	1	111	66 33	55 21	"	29 56	49 00	19 06'	"	0:5757	1:4469
25	(g)	$1 \frac{1}{2}$	212	77 46	53 38'	"	16 03'	51 54'	9 49'	"	0:2878	1:3583
26	(o)	$\frac{1}{2}$	112	66 33	35 53	33 34'	"	32 32	13 29	0:6637	"	0:7234
27	(q)	$\frac{1}{3} 0$	116	"	13 33'	12 28'	5 29	12 52	5 21	0:2212	0:0959	0:2411
28	(a)	$\frac{2}{3} \frac{1}{3}$	213	77 46	42 09'	41 30'	10 52	40 59'	8 10	0:8849	0:1919	0:9055

Olivin-Gruppe¹⁾ Tephroit.

Rhombisch.

a = 0:4600	lg a = 966276	lg a ₀ = 988905	lg p ₀ = 011095	a ₀ = 0:7745	p ₀ = 1:2911
c = 0:5939	lg c = 977371	lg b ₀ = 022629	lg q ₀ = 977371	b ₀ = 1:6838	q ₀ = 0:5939

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	(b)	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	(a)	0 ∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	c	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	(m)	2 ∞	210	77 03	"	"	90 00	77 03	12 57	4:3478	∞	"
5	(u)	$\frac{1}{2} \infty$	540	69 47'	"	"	"	69 47'	20 12'	2:7173	"	"
6	v	$\frac{1}{3} \infty$	10:9:0	67 30'	"	"	"	67 30'	22 29'	2:4154	"	"

¹⁾ Vergl. Fussnote S. 251.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =lg ϱ
7	n	∞	110	65° 18'	90° 00'	90° 00'	90° 00'	65° 18'	24° 42'	2'1739	∞	∞
8	(x)	$\infty \frac{3}{2}$	230	55 23'	"	"	"	55 23'	34 36'	1'4492	"	"
9	s	$\infty 2$	120	47 23	"	"	"	47 23	42 37	1'0869	"	"
10	(r)	$\infty 3$	130	35 55'	"	"	"	35 55'	54 04'	0'7246	"	"
11	(z)	$\infty 4$	140	28 31'	"	"	"	28 31'	61 28'	0'5434	"	"
12	(y)	$\infty 5$	150	23 30	"	"	"	23 30	66 30	0'4348	"	"
13	(w)	$0 \frac{1}{2}$	012	0 00	16 32'	0 00	16 32'	0 00	16 32'	0	0'2969	0'2969
14	h	01	011	"	30 42'	"	30 42'	"	30 42'	"	0'5939	0'5939
15	(p)	$0 \frac{3}{2}$	032	"	41 42	"	41 42	"	41 42	"	0'8908	0'8908
16	(k)	02	021	"	49 54'	"	49 54'	"	49 54'	"	1'1878	1'1878
17	(i)	04	041	"	67 10	"	67 10	"	67 10	"	2'3756	2'3756
18	(β)	$\frac{1}{6} 0$	106	90 00	12 08'	12 08'	0 00	12 08'	0 00	0'2152	0	0'2152
19	(v)	$\frac{1}{2} 0$	102	"	32 50'	32 50'	"	32 50'	"	0'6455	"	0'6455
20	(γ)	$\frac{2}{3} 0$	203	"	40 43	40 43	"	40 43	"	0'8607	"	0'8607
21	(d)	10	101	"	52 14'	52 14'	"	52 14'	"	1'2911	"	1'2911
22	l	13	131	35 55'	65 33'	"	60 42	32 17'	47 29'	"	1'7817	2'2003
23	f	12	121	47 23	60 19	"	49 54'	39 44'	36 02	"	1'1878	1'7543
24	e	1	111	65 18	54 52	"	30 42'	47 59	19 59	"	0'5939	1'4211
25	(g)	$1 \frac{1}{2}$	212	77 03	52 57	"	16 32'	51 03'	10 18'	"	0'2969	1'3247
26	(o)	$1 \frac{1}{2}$	112	65 18	35 24	32 50'	"	31 45	14 00'	0'6455	"	0'7106
27	(q)	$\frac{1}{6}$	116	"	13 19'	12 08'	5 39	12 05	5 31'	0'2152	0'0990	0'2369
28	(α)	$\frac{2}{3} \frac{1}{3}$	213	77 03	41 27	40 43	11 12	40 10'	8 32	0'8607	0'1980	0'8832

Orthit.

Monoklin.

a = 1'5527	lg a = 019109	lg a ₀ = 994116	lg p ₀ = 005884	a ₀ = 0'8733	p ₀ = 1'1451
c = 1'7780	lg c = 024993	lg b ₀ = 975007	lg q ₀ = 020721	b ₀ = 0'5624	q ₀ = 1'6114
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 65^\circ 00'$	lg h = $\left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 995728$	lg e = $\left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 962595$	lg $\frac{p_0}{q_0}$ = 985163	h = 0'9063	e = 0'4226

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90° 00'	25° 00'	25° 00'	0° 00'	25° 00'	0° 00'	0'4663	0	0'4663
2	t	$\infty 0$	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	II	10 ∞	10'1'0	81 59'	"	"	90 00	81 59'	8 00'	7'1060	∞	"
4	U	6 ∞	610	76 48	"	"	"	76 48	13 12	4'2633	"	"
5	u	2 ∞	210	54 52	"	"	"	54 52	35 08	1'4212	"	"
6	z	∞	110	35 24	"	"	"	35 24	54 36	0'7106	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
7	k	$0\frac{1}{2}$	012	27° 41	45° 06'	25° 00	41° 38	19° 13	38° 51'	0.4663	0.8890	1.0039
8	o	01	011	14 42	61 27	"	60 39	12 52'	58 10'	"	1.7780	1.8381
9	Θ	+20	201	90 00	71 31'	71 31'	0 00	71 31'	0 00	2.9932	0	2.9932
10	e	+10	101	"	59 58	59 58	"	59 58	"	1.7297	"	1.7297
11	m	+ $\frac{1}{2}0$	102	"	47 40'	47 40'	"	47 40'	"	1.0979	"	1.0979
12	S	- $\frac{1}{4}0$	104	"	8 33	8 33	"	8 33	"	0.1503	"	0.1503
13	R	- $\frac{1}{3}0$	103	"	2 35	2 35	"	2 35	"	0.0451	"	0.0451
14	i	- $\frac{1}{2}0$	102	90 00	9 23'	9 23'	"	9 23'	"	0.1654	"	0.1654
15	σ	- $\frac{2}{3}0$	203	"	20 36'	20 36'	"	20 36'	"	0.3760	"	0.3760
16	r	-10	101	"	38 34	38 34	"	38 34	"	0.7972	"	0.7972
17	K	- $\frac{3}{2}0$	302	"	55 01	55 01	"	55 01	"	1.4289	"	1.4289
18	a	-20	201	"	64 07	64 07	"	64 07	"	2.0606	"	2.0606
19	f	-30	301	"	73 15'	73 15'	"	73 15'	"	3.3241	"	3.3241
20	λ	-50	501	"	80 18	80 18	"	80 18	"	5.8510	"	5.8510
21	d	+1	111	44 13	68 02'	59 58	60 39	40 18	41 40	1.7297	"	2.4805
22	v	+ $\frac{1}{2}$	112	51 00'	54 42'	47 40'	41 38'	39 22'	30 54	1.0980	0.8890	1.4128
23	V	+ $\frac{1}{5}$	115	63 41	38 44	35 43	19 34'	34 07	16 06'	0.7189	0.3556	0.8021
24	π	- $\frac{1}{4}$	114	18 41'	25 08'	8 33	23 58	7 49'	23 44	0.1503	0.4445	0.4692
25	x	- $\frac{1}{2}$	112	10 32'	42 07'	9 23'	41 38'	7 03	41 15	0.1654	0.8890	0.9043
26	n	-1	111	24 09	62 50	38 34	60 39	21 21	54 16'	0.7972	1.7780	1.9485
27	q	-2	221	30 06	76 19'	64 07	74 17'	29 19'	57 13	2.0609	3.5560	4.1101
28	w	+21	211	59 17'	73 58'	71 31'	60 39	55 43'	29 24	2.9931	1.7780	3.4815
29	M	-21	211	49 13	69 49'	64 07	"	45 17'	37 49	2.0609	"	2.7219
30	η	- $\frac{1}{4}\frac{1}{2}$	124	9 36	42 02'	8 33	41 38	6 25	41 19	0.1503	0.8890	0.9016

Osmiridium.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1.4105 \quad \lg c = 0.14937 \quad \lg a_0 = 0.08919 \quad \lg p_0 = 9.97328 \quad a_0 = 1.2280 \quad p_0 = 0.9403 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	g	$\infty 0$	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	h	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	r	20	2021	0 00	62 00	0 00	62 00	0 00	62 00	0	1.8806	1.8806
5	de	+1	1121	30 00	58 27	39 09'	54 40	25 13	67 33'	0.8143	1.4105	1.6287

Pachnolith.

Monoklin.

a = 1'1634	lg a = 006573	lg a ₀ = 988041	lg p ₀ = 011958	a ₀ = 0'7593	p ₀ = 1'3170
c = 1'5322	lg c = 018531	lg b ₀ = 981469	lg q ₀ = 018530	b ₀ = 0'6527	q ₀ = 1'5321
$\mu = \left. \begin{matrix} \\ \beta \end{matrix} \right\} 89^{\circ}42'$	lg h = 999999	lg e = 771900	lg $\frac{p_0}{q_0}$ = 993424	h = 1	e = 0'0052

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	0	001	90°00	0°18	0°18	0°00	0°18	0°00	0'0052	0	0'0052
2	m	∞	110	40 41	90 00	90 00	90 00	40 41	49 19	0'8595	∞	∞
3	p	+1	111	48 39'	60 25	52 54	49 19	40 45'	35 03'	1'3222	1'1634	1'7612
4	f	+3 ¹	311	73 37	76 22	75 49	"	68 48'	15 55	3'9562	"	4'1238
5	r	-1	111	48 26	60 18	52 41	"	40 32	35 12	1'3118	"	1'7534
6	x	+5	551	48 34	83 30'	81 22'	80 15	48 09	41 06'	6'5903	5'8170	8'7904
7	v	+3	331	48 35	79 16	75 49	74 01'	47 27'	40 32'	3'9562	3'4901'	5'2759
8	q	+2	221	48 36	74 08	69 15	66 44'	46 11	39 30	2'6392	2'3258	3'5184
9	t	+ $\frac{5}{3}$	553	48 37	71 10'	65 33'	62 43	45 14'	38 44'	2'2002	1'9390	2'9327
10	s	+ $\frac{5}{4}$	554	48 38	65 33'	58 48'	55 29	43 06	36 39'	1'6515	1'4542'	2'2005

Palladium.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	0 0∞	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1'0000	1'0000	1'4142

Parisit.

Hexagonal-holoedrisch.

$$c = 1'6822 \quad | \quad \lg c = 022588 \quad | \quad \lg a_0 = 001268 \quad | \quad \lg p_0 = 004979 \quad | \quad a_0 = 1'0296 \quad | \quad p_0 = 1'1214 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	∞	1120	30°00	90 00	90 00	90 00	30 00	60 00	0'5773	∞	∞
3	ε	$\frac{2}{3}0$	3034	0 00	40 04	0 00	40 04	0 00	40 04	0	0'8411	0'8411
4	x	10	1011	"	48 16'	"	48 16'	"	48 16'	"	1'1215	1'1215
5	a	$\frac{3}{2}0$	3032	"	59 16'	"	59 16'	"	59 16'	"	1'6822	1'6822

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
6	y	20	2021	0°00	65°58	0°00	65°58	0°00	65°58	0	2'2430	2'2430
7	z	30	3031	"	73 27	"	73 27	"	73 27	"	3'3644	3'3644
8	π	40	4041	"	77 26	"	77 26	"	77 26	"	4'4859	4'4859
9	f	60	6061	"	81 33	"	81 33	"	81 33	"	6'7288	6'7288
10	s	1	1121	30 00	62 45'	44 10	59 16	26 23'	50 21	0'9712	1'6822	1'9425
11	e	$\frac{4}{3}$	4483	"	68 53'	52 19'	65 58	27 48	53 53'	1'2950	2'2430	2'5900
12	d	2	2241	"	75 34	62 45'	73 27	28 57'	57 00	1'9424	3'3644	3'8849
13	p	4	4481	"	82 40	75 34	81 33	29 44	59 12	3'8849	6'7288	7'7698
14	ξ	51	5161	8 57	80 54	44 10	80 47'	8 50	77 15'	0'9712	6'1681	6'2441

Partschin.

Monoklin.

a = 1'2239	lg a = 008774	lg a ₀ = 019000	lg p ₀ = 981000	a ₀ = 1'5488	p ₀ = 0'6457
c = 0'7902	lg c = 989774	lg b ₀ = 010226	lg q ₀ = 979584	b ₀ = 1'2655	q ₀ = 0'6249
$\mu_{180-\beta} = 52^\circ 16'$	lg h = 989810	lg e = 978674	lg $\frac{p_0}{q_0} = 001416$	h = 0'7909	e = 0'6120

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	37°44	37°44	0°00	37°44	0°00	0'7738	0	0'7738
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	45 56	"	"	90 00	45 56	44 04	1'0331	∞	"
5	e	01	011	44 24	47 53	37 44	38 19	31 16	32 00	0'7738	0'7902	1'1060
6	p	-1	111	3 05	38 21'	2 26'	"	1 55	38 17'	0'0426	"	0'7914

Patrinit.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 001238; \frac{p_0}{q_0} = 1'0289; \frac{a}{b} = 0'9719$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	b	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	e	2 ∞	210	64 05	"	90 00	"	64 05	25 55	2'0578	"	"
3	m	∞	110	45 49	"	"	"	45 49	44 11	1'0289	"	"
4	f	$\infty 2$	120	27 13'	"	"	"	27 13'	62 46'	0'5144'	"	"
5	i	$\infty 3$	130	18 56	"	"	"	18 56	71 04	0'3430	"	"

Pearcit.

Monoklin.

$a = 1.7309$	$\lg a = 0.23827$	$\lg a_0 = 0.02878$	$\lg p_0 = 9.97122$	$a_0 = 1.0685$	$p_0 = 0.9359$
$c = 1.6199$	$\lg c = 0.20949$	$\lg b_0 = 9.79051$	$\lg q_0 = 0.20949$	$b_0 = 0.6173$	$q_0 = 1.6199$
$\mu_{180-\beta} = \left. \begin{matrix} \\ \end{matrix} \right\} 89^\circ 51'$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 0$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 7.41797$	$\lg \frac{p_0}{q_0} = 9.76173$	$h = 1.0000$	$e = 0.0026$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	0	001	90°00	0°09	0°09	0°00	0°09	0°00	0.0026	0	0.0026
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	0 00	90 00	0 00	90 00	0 00	∞	0	"
4	l	3∞	310	60 01	90 00	"	90 00	60 01	29 59	1.7332	∞	"
5	m	∞	110	30 01	"	"	"	30 01	59 59	0.5777	"	"
6	h	∞3	130	10 54	"	"	"	10 54	79 06	0.1926	"	"
7	k	02	021	0 03	72 51	0 09	72 51	0 02	72 51	0.0026	3.2398	3.2398
8	Δ	- $\frac{2}{3}$ 0	203	90 00	31 51	31 51	0 00	31 51	0 00	0.6213	0	0.6213
9	d	+ $\frac{1}{2}$ 0	102	90 00	25 12	25 12	"	25 12	"	0.4705	"	0.4705
10	n	+10	101	"	43 11	43 11	"	43 11	"	0.9385	"	0.9385
11	n'	-10	101	90 00	43 01	43 01	"	43 01	"	0.9333	"	0.9333
12	t	+20	201	90 00	61 55	61 55	"	61 55	"	1.8744	"	1.8744
13	t'	-20	201	90 00	61 51	61 51	"	61 51	"	1.8692	"	1.8692
14	e	+40	401	90 00	75 03	75 03	"	75 03	"	3.7462	"	3.7462
15	e'	-40	401	90 00	75 02	75 02	"	75 02	"	3.7410	"	3.7410
16	f	+60	601	90 00	79 54	79 54	"	79 54	"	5.6180	"	5.6180
17	f'	-60	601	90 00	79 54	79 54	"	79 54	"	5.6128	"	5.6128
18	o	+ $\frac{1}{4}$	114	30 17	25 07	13 18	22 03	12 22	21 30	0.2366	0.4050	0.4690
19	o'	- $\frac{1}{4}$	114	29 44	25 00	13 01	"	12 06	21 32	0.2314	"	0.4664
20	q'	- $\frac{1}{3}$	113	29 49	31 53	17 11	28 22	15 14	27 17	0.3094	0.5400	0.6223
21	r	+ $\frac{1}{2}$	112	30 09	43 07	25 12	39 00	20 05	36 14	0.4705	0.8100	0.9367
22	r.	- $\frac{1}{2}$	112	29 53	43 03	24 57	"	19 53	36 17	0.4653	"	0.9341
23	p	+1	111	30 05	61 53	43 11	58 19	26 14	49 45	0.9385	1.6200	1.8721
24	p'	-1	111	29 57	61 51	43 01	"	26 07	49 49	0.9333	"	1.8695
25	v	+ $\frac{3}{2}$	332	30 04	70 23	54 35	67 38	28 09	54 37	1.4064	2.4300	2.8075
26	v'	- $\frac{3}{2}$	332	29 58	70 22	54 29	"	28 04	54 41	1.4012	"	2.8050
27	s	+2	221	30 03	75 02	61 55	72 51	28 56	56 45	1.8744	3.2400	3.7429
28	s'	-2	221	29 59	75 02	61 51	"	28 52	56 48	1.8692	"	3.7404
29	u	+3	331	30 02	79 54	70 25	78 22	29 31	58 27	2.8103	4.8600	5.6137
30	u'	-3	331	29 59	"	70 23	"	29 29	58 30	2.8051	"	5.6111
31	x	+31	311	60 02	72 52	70 25	58 18	55 53	28 30	2.8103	1.6200	3.2438
32	y	+1 $\frac{1}{3}$	313	60 05	47 16	43 11	28 22	39 33	21 29	0.9385	0.5400	1.0827
33	z	+ $\frac{1}{4}$ 1 $\frac{1}{2}$	3 $\frac{1}{4}$ 1 $\frac{1}{2}$	60 17	15 14	13 18	7 41	13 11	7 29	0.2366	0.1350	0.2724

Penfieldit.

Hexagonal. Holoedrisch.

$$c = 1.3450 \quad \lg c = 0.12872 \quad \lg a_0 = 0.10984 \quad \lg p_0 = 995263 \quad a_0 = 1.2878 \quad p_0 = 0.8967 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	∞	11 $\bar{2}$ 0	30°00	90°00	90°00	90°00	30°00	60°00	0.5773	∞	∞
3	x	10	1011	0°00	41°53	0°00	41°53	0°00	41°53	o	0.8966	0.8966

Pentlandit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	p	1	111	45°00	54°44	45°00	45°00	35°16	35°16	1.0000	1.0000	1.4142

Percylith.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	$\left\{ \begin{array}{l} o \\ o\infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} — \\ 0°00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} o \\ " \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$
2	e	$\left\{ \begin{array}{l} o\frac{1}{2} \\ o2 \\ \infty 2 \end{array} \right.$	$\left\{ \begin{array}{l} 012 \\ 021 \\ 120 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 26\ 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26\ 34 \\ 63\ 26 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} 26\ 34 \\ 63\ 26 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 26\ 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26\ 34 \\ 63\ 26 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} " \\ " \\ 0.5000 \end{array} \right.$	$\left\{ \begin{array}{l} 0.5000 \\ 2.0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0.5000 \\ 2.0000 \\ \infty \end{array} \right.$
3	d	$\left\{ \begin{array}{l} o1 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 011 \\ 110 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 45°00 \end{array} \right.$	$\left\{ \begin{array}{l} 45°00 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} 45°00 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 45°00 \end{array} \right.$	$\left\{ \begin{array}{l} 45°00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} o \\ 1.0000 \end{array} \right.$	$\left\{ \begin{array}{l} 1.0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 1.0000 \\ \infty \end{array} \right.$
4	p	1	111	"	54°44	45°00	45°00	35°16	35°16	"	1.0000	1.4142

Periklas.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	$\left\{ \begin{array}{l} o \\ o\infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} — \\ 0°00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0°00 \\ 90°00 \end{array} \right.$	$\left\{ \begin{array}{l} o \\ " \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$
2	p	1	111	45°00	54°44	45°00	45°00	35°16	35°16	1.0000	1.0000	1.4142

Perowskit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ 00 \\ 00 \end{array} \right.$	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	g	$\left\{ \begin{array}{l} 0 \\ 0 \\ 0 \end{array} \right.$	025 052 250	" " 21 48	21 48 68 12 90 00	" " 90 00	21 48 68 12 90 00	" " 21 48	21 48 68 12 "	" " 0°4000	0°4000 2°5000 ∞	0°4000 2°5000 ∞
3	e	$\left\{ \begin{array}{l} 0 \\ 02 \\ 0 \end{array} \right.$	012 021 120	0 00 " 26 34	26 34 63 26 90 00	0 00 " 90 00	26 34 63 26 90 00	0 00 " 26 34	26 34 63 26 "	0 " 0°5000	0°5000 2°0000 ∞	0°5000 2°0000 ∞
4	b	$\left\{ \begin{array}{l} 0 \\ 0 \\ 0 \end{array} \right.$	023 032 230	0 00 " 33 41'	33 41' 56 18' 90 00	0 00 " 90 00	33 41' 56 18' 90 00	0 00 " 33 41'	33 41' 56 18' "	0 " 0°6667	0°6667 1°5000 ∞	0°6667 1°5000 ∞
5	Δ	$\left\{ \begin{array}{l} 0 \\ 0 \\ 0 \end{array} \right.$	0°8'11 0°11'8 8°11'0	0 00 " 36 01'	36 01' 53 58' 90 00	0 00 " 90 00	36 01' 53 58' 90 00	0 00 " 36 01'	36 01' 53 58' "	0 " 0°7273	0°7273 1°3750 ∞	0°7273 1°3750 ∞
6	i	$\left\{ \begin{array}{l} 0 \\ 0 \\ 0 \end{array} \right.$	034 043 340	0 00 " 36 52	36 52 53 08 90 00	0 00 " 90 00	36 52 53 08 90 00	0 00 " 36 52	36 52 53 08 "	0 " 0°7500	0°7500 1°3333 ∞	0°7500 1°3333 ∞
7	δ	$\left\{ \begin{array}{l} 0 \\ 0 \\ 0 \end{array} \right.$	045 054 450	0 00 " 38 39'	38 39' 51 20' 90 00	0 00 " 90 00	38 39' 51 20' 90 00	0 00 " 38 39'	38 39' 51 20' "	0 " 0°8000	0°8000 1°2500 ∞	0°8000 1°2500 ∞
8	d	$\left\{ \begin{array}{l} 01 \\ 0 \end{array} \right.$	011 110	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	45 00 "	0 1°0000	1°0000 ∞	1°0000 ∞
9	m	$\left\{ \begin{array}{l} 1 \\ 13 \end{array} \right.$	113 131	" 18 26	25 14' 72 27	18 26 45 00	18 26 71 34	17 33 "	17 33 64 45'	0°3333 1°0000	0°3333 3°0000	0°4714 3°1623
10	ε	$\left\{ \begin{array}{l} 1 \\ 10 \end{array} \right.$	449 494	45 00 23 58	32 09 67 54	23 58 45 00	23 58 66 02	22 06 "	22 06 57 51	0°4444 1°0000	0°4444 2°2500	0°6285 2°4622
11	q	$\left\{ \begin{array}{l} 1 \\ 12 \end{array} \right.$	112 121	45 00 26 34	35 16 65 54'	26 34 45 00	26 34 63 26	24 05' "	24 05' 54 44	0°5000 1°0000	0°5000 2°0000	0°7071 2°2360
12	n	$\left\{ \begin{array}{l} 1 \\ 1 \end{array} \right.$	223 232	45 00 33 41'	43 19 60 59	33 41' 45 00	33 41' 56 18'	29 01 "	29 01 46 41	0°6667 1°0000	0°6667 1°5000	0°9428 1°8028
13	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1°0000	1°4142
14	u	$\left\{ \begin{array}{l} 1 \\ 2 \end{array} \right.$	122 221	26 34 45 00	48 11' 70 31'	26 34 63 26	" 63 26	19 28' 41 48'	41 48' "	0°5000 2°0000	" 2°0000	1°1180 2°8284
15	F	$\left\{ \begin{array}{l} 1 \\ 1 \\ 1 \\ 1 \end{array} \right.$	346 364 463	36 52 26 34 33 14'	39 48' 59 11' 67 24'	26 34 36 52 53 08	33 41' 56 18' 63 26	22 35' "30 48'	30 48' 50 11' "	0°5000 0°7500 1°3333	0°6667 1°5000 2°0000	0°8333 1°6770 2°4037

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
16	y	$\left\{ \begin{array}{l} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \end{array} \right.$	234	33° 41'	42° 02'	26° 34'	36° 52'	21° 48'	33° 51'	0° 5000	0° 7500	0° 9014
			243	26 34	56 08	33 41	53 08	"	47 58	0° 6667	1° 3333	1° 4907
			342	36 52	68 12	56 13	63 26	33 51	"	1° 5000	2° 0000	2° 5000
17	Γ	$\left\{ \begin{array}{l} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \end{array} \right.$	238	33 41'	24 15'	14 02'	20 33'	13 10'	19 59'	0° 2500	0° 3750	0° 4507
			283	14 02	70 00	33 41	69 26	"	65 44	0° 6667	2° 6667	2° 7487
			382	20 33'	76 49'	56 18	75 58	19 59'	"	1° 5000	4° 0000	4° 2720
18	H	$\left\{ \begin{array}{l} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \end{array} \right.$	249	26 34	26 25'	12 31'	23 58	11 29	23 27'	0° 2222	0° 4444	0° 4969
			294	12 31'	66 32'	26 34	66 02	"	63 34'	0° 5000	2° 2500	2° 3049
			492	23 58	78 31	63 26	77 28	23 27'	"	2° 0000	4° 5000	4° 9243
19	Θ	$\left\{ \begin{array}{l} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \end{array} \right.$	3° 4' 10"	36 52	26 34	16 42	21 48	15 34	20 58	0° 3000	0° 4000	0° 5000
			3° 10' 4"	16 42	69 02	36 52	68 12	"	63 26	0° 7500	2° 5000	2° 6100
			4° 10' 3"	21 48	74 26	53 08	73 18	20 58	"	1° 3333	3° 3333	3° 5901

Petalit.

Monoklin.

a = 1'1534	lga = 006198	lga ₀ = 988961	lgp ₀ = 011039	a ₀ = 0° 7755	p ₀ = 1° 2894
c = 1'4872	lgc = 017237	lgb ₀ = 982763	lgq ₀ = 013819	b ₀ = 0° 6724	q ₀ = 1° 3746
$\mu = \left. \begin{array}{l} 3 \\ 180 - \beta \end{array} \right\} 67^\circ 34'$	$lgh = \left. \begin{array}{l} 1 \\ 2 \end{array} \right\} 996582$	$lge = \left. \begin{array}{l} 1 \\ 2 \end{array} \right\} 958162$	$lg \frac{p_0}{q_0} = 997220$	h = 0° 9243	e = 0° 3816

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90° 00'	22° 26'	22° 26'	0° 00'	22° 26'	0° 00'	0° 4128	0	0° 4128
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	43 10	"	"	90 00	43 10	46 50	0° 9380	∞	"
5	n	∞2	120	25 07'	"	"	"	25 07'	64 52'	0° 4690	"	"
6	e	01	011	15 31	57 03'	22 26	56 05	12 58'	53 58	0° 4128	1° 4872	1° 5434
7	y	+10	101	90 00	61 03	61 03	0 00	61 03	0 00	1° 8078	0	1° 8078
8	q	+20	203	"	53 19'	53 19'	"	53 19'	"	1° 3428	"	1° 3428
9	p	+10	102	"	47 59'	47 59'	"	47 59'	"	1° 1103	"	1° 1103
10	?z	-0	9° 0' 10"	90 00	40 07	40 07	"	40 07	"	0° 8426	"	0° 8426
11	x	-20	201	"	67 11	67 11	"	67 11	"	2° 3771	"	2° 3771
12	ε	-12	121	18 16'	72 17'	44 29	71 25	17 23	64 46	0° 9821	2° 9744	3° 1323

Pharmakolith.

Monoklin.

$a = 0.6137$	$\lg a = 978796$	$\lg a_0 = 022901$	$\lg p_0 = 977099$	$a_0 = 1.6944$	$p_0 = 0.5902$
$c = 0.3622$	$\lg c = 955895$	$\lg b_0 = 044105$	$\lg q_0 = 955590$	$b_0 = 2.7609$	$q_0 = 0.3597$
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 83^\circ 13$	$\lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 999695$	$\lg e = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 907231$	$\lg \frac{p_0}{q_0} = 021509$	$h = 0.9930$	$e = 0.1181$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \varrho$
1	c	0	001	90° 00	6° 47	6° 47	0° 00	6° 47	0° 00	0.1189	0	0.1189
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	s	3∞	310	78 31	"	90 00	"	78 31	11 29	4.9228	"	"
4	m	∞	110	58 38	"	"	"	58 38	31 21	1.6409	"	"
5	n	01	011	18 11	20 52	6 47	19 55	6 23	19 47	0.1189	0.3622	0.3812
6	π	-1	111	52 42	30 52	25 25	19 54	24 05	18 07	0.4754	"	0.5977
7	d	+3	331	60 15	65 27	62 16	47 22	52 10	26 49	1.9020	1.0865	2.1905
8	x	-32	321	66 28	61 09	59 00	35 55	53 25	20 27	1.6641	0.7244	1.8149

Pharmakosiderit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\operatorname{tg} \varrho$
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	001 010	— 0° 00	0° 00 90 00	0° 00 "	0° 00 90 00	0° 00 "	0° 00 90 00	0 "	0 ∞	0 ∞
2	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	011 110	" 45 00	45 00 90 00	" 90 00	45 00 90 00	" 45 00	45 00 "	" 1.0000	1.0000 ∞	1.0000 ∞
3	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1.0000	1.4142
4	u	$\left\{ \begin{matrix} \frac{1}{2}1 \\ 2 \end{matrix} \right.$	122 221	26 34 45 00	48 11 70 31	26 34 63 26	" 63 26	19 28 41 48	41 48 "	0.5000 2.0000	" 2.0000	1.1180 2.8284

Phenakit.

Hexagonal. Rhomboedrisch-tetartoedrisch.

$$c = 0.6611 \quad \lg c = 982027 \quad \lg a_0 = 041829 \quad \lg p_0 = 964418 \quad a_0 = 2.6200 \quad p_0 = 0.4407 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{(Prismen)}$ (x : y)	y	d =tg ϱ
1	a	$\infty 0$	1010	0° 00'	90° 00'	0° 00'	90° 00'	0° 00'	90° 00'	0	∞	∞
2	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
3	η	2 ∞	2130	19 06'	"	"	"	19 06'	70 53'	0.3464	"	"
4	π	10	1011	0 00	23 47	0 00	23 47	0 00	23 47	0	0.4407	0.4407
5	λ	20	2021	"	41 23'	"	41 23'	"	41 23'	"	0.8815	0.8815
6	δ	$-\frac{1}{2}$	1122	30 00	20 53'	10 48'	18 17'	10 16	17 59'	0.1908	0.3305	0.3817
7	$p' \kappa'$	$+\frac{1}{2}$	1121	"	37 21'	20 53'	33 28	17 39'	31 42	0.3917	0.6611	0.7634
8	φ'	-2	2241	"	56 46'	37 21'	52 54	24 43'	46 25'	0.7634	1.3222	1.5268
9	t:	$+\frac{1}{4}$	4154	10 53'	26 47'	5 27	26 22'	4 53	26 16	0.0954	0.4958	0.5049
10	H:	$+\frac{3}{2}$	5272	16 06	54 00	20 53'	52 54	12 58	51 00'	0.3817	1.3222	1.3762
11	K:	$+\frac{1}{4}$	4151	10 53'	63 39'	"	63 14'	9 45	61 39	"	1.9833	2.0197
12	P:	$+\frac{7}{4}$	7181	6 35	73 16'	"	73 10	6 18'	72 03'	"	3.3055	3.3275
13	e:	$-2\frac{1}{2}$	4152	10 53'	45 17	10 48'	44 45'	7 43	44 15	0.1908	0.9916	1.0099
14	p:	-52	5271	16 06	70 02	37 21'	69 17	15 06'	64 33'	0.7634	2.6444	2.7524
15	l:	$-\frac{1}{2}$	2132	19 06'	30 14'	10 48'	28 51	9 29'	28 25	0.1908	0.5509	0.5830
16	t:	$-\frac{3}{4}$	5274	16 06	34 32	"	33 28	9 03	33 00	"	0.6611	0.6881

Phillipsit.

Monoklin.

a = 0.7035	lga = 984726	lga ₀ = 976775	lgp ₀ = 023225	a ₀ = 0.5858	p ₀ = 1.7071
c = 1.2289	lgc = 008951	lgb ₀ = 991049	lgq ₀ = 000559	b ₀ = 0.8137	q ₀ = 1.0130
$\mu_{180-\beta} = 55^\circ 31'$	lgh = 991608	lge = 975294	lg $\frac{p_0}{q_0}$ = 022666	h = 0.8242	e = 0.5662

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x'}{(Prismen)}$ (x : y)	y'	d' =tg ϱ
1	a	0	001	90° 00'	34° 29'	34° 29'	0° 00'	34° 29'	0° 00'	0.6868	0	0.6868
2	b	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	s	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	p	∞	110	59 19	"	"	90 00	59 19	30 41	1.6852	∞	"
5	q	$\infty 2$	120	40 07	"	"	"	40 07	49 53	0.8426	"	"
6	e	01	011	29 12	54 37	34 29	50 52	23 26'	45 22	0.6868	1.2289	1.4078
7	d	$+\frac{50}{10}$	501	90 00	84 49'	84 49'	0 00	84 49'	0 00	11.042	0	11.042
8	f	-10	101	90 00	54 09	54 09	"	54 09	"	1.3841	"	1.3841

Phosgenit.

Tetragonal. Trapezoedrisch-hemiedrisch.

$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 1.0889$	$\lg c = 003700$	$\lg a_o = 996300$	$a_o = 0.9183$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d = $\operatorname{tg} \varrho$
1	c	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	b	∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1.0000	"	"
4	l	∞	230	33 41'	"	"	"	33 41'	56 18'	0.6667	"	"
5	k	∞	580	32 00'	"	"	"	32 00'	57 59'	0.6250	"	"
6	u	∞	120	26 34	"	"	"	26 34	63 26	0.5000	"	"
7	L	∞	130	18 26	"	"	"	18 26	71 34	0.3333	"	"
8	ø	∞	150	11 18'	"	"	"	11 18'	78 41'	0.2000	"	"
9	d	01	013	0 00	19 57	0 00	19 57	0 00	19 57	o	0.3629	0.3629
10	f	02	023	"	35 58'	"	35 58'	"	35 58'	"	0.7259	0.7259
11	e	01	011	"	47 26	"	47 26	"	47 26	"	1.0889	1.0889
12	o	02	021	"	65 20	"	65 20	"	65 20	"	2.1778	2.1778
13	z	1	116	45 00	14 23'	10 17	10 17	10 07'	10 07'	0.1815	0.1815	0.2567
14	?β	1	114	"	21 03'	15 13'	15 13'	14 43	14 43	0.2722	0.2722	0.3850
15	y	1	113	"	27 10'	19 57	19 57	18 50'	18 50'	0.3630	0.3630	0.5133
16	x	1	111	"	57 00	47 26	47 26	36 22'	36 22'	1.0889	1.0889	1.5399
17	r	2	332	"	66 35'	58 31'	58 31'	40 27'	40 27'	1.6334	1.6334	2.3099
18	w	2	221	"	72 00'	65 20	65 20	42 16	42 16	2.1778	2.1778	3.0799
19	t	2	552	"	75 26'	69 50	69 50	43 11'	43 11'	2.7223	2.7223	3.8499
20	n	2	881	"	85 21'	83 27	83 27	44 49	44 49	8.7114	8.7114	12.3197
21	?γ	1	129	26 34	15 08'	6 54	13 36	6 42'	13 30'	0.1211	0.2419	0.2705
22	?δ	1	127	"	19 11	8 50'	17 17	8 27	17 05'	0.1555	0.3111	0.3478
23	α	1	125	"	25 58	12 17	23 32	11 17'	23 03	0.2177	0.4355	0.4870
24	?ε	1	122	"	50 36	28 34	47 26'	20 13	43 43'	0.5444	1.0889	1.2174
25	s	1	121	"	67 40'	47 26'	65 20	24 26	55 41'	1.0889	2.1776	2.4349
26	p	2	362	"	74 41'	58 31'	72 59	25 33	59 37	1.6334	3.2668	3.6523
27	?ζ	2	241	"	78 24	65 20	77 04	25 59	61 11	2.1776	4.3557	4.8698
28	q	1	232	33 41'	63 00'	47 26'	58 31'	29 37'	47 51'	1.0889	1.6334	1.9631
29	h	1	141	14 02	77 26'	"	77 04	13 41'	71 15	"	4.3557	4.4898
30	g	1	162	9 27'	73 12	28 34	72 59	9 03'	70 47'	0.5444	3.2668	3.3118
31	v	1	131	18 26	73 48'	47 26	"	17 40'	65 39	1.0889	"	3.4435

Phosphosiderit.

Rhombisch.

$a = 0.5330$	$\lg a = 972673$	$\lg a_0 = 978363$	$\lg p_0 = 021637$	$a_0 = 0.6076$	$p_0 = 1.6458$
$c = 0.8772$	$\lg c = 994310$	$\lg b_0 = 005690$	$\lg q_0 = 994310$	$b_0 = 1.1400$	$q_0 = 0.8772$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y	d' =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	p	7∞	710	85 38'	"	"	90 00	85 38'	4 21'	13'1330	∞	"
5	o	4∞	410	82 24'	"	"	"	82 24'	7 35'	7'5033	"	"
6	n	2∞	210	75 04'	"	"	"	75 04'	14 55'	3'7523'	"	"
7	m	∞	110	61 56'	"	"	"	61 56'	28 03'	1'8762	"	"
8	g	0 $\frac{3}{2}$	034	0 00	33 20'	0 00	33 20'	0 00	33 20'	0	0'6579	0'6579
9	h	01	011	"	41 15'	"	41 15'	"	41 15'	"	0'8772	0'8772
10	t	04	041	"	74 05'	"	74 05'	"	74 05'	"	3'5088	3'5088
11	e	10	101	90 00	58 43	58 43	0 00	58 43	0 00	1'6458	0	1'6458
12	d	1	111	61 56'	61 48	"	41 15'	51 03	24 29'	"	0'8772	1'8649
13	i	7	771	"	85 37	85 02'	80 45	61 37'	27 58	11'5200	6'1404	13'055

Pikromerit.

Monoklin.

$a = 0.7370$	$\lg a = 986747$	$\lg a_0 = 017234$	$\lg p_0 = 982766$	$a_0 = 1.4871$	$p_0 = 0.6724$
$c = 0.4956$	$\lg c = 969513$	$\lg b_0 = 030487$	$\lg q_0 = 968018$	$b_0 = 2.0178$	$q_0 = 0.4788$
$\mu = \left. \begin{array}{l} \\ 180 - \beta \end{array} \right\} 75^\circ 03$	$\lg h = \left. \begin{array}{l} \\ \lg \sin \mu \end{array} \right\} 998505$	$\lg e = \left. \begin{array}{l} \\ \lg \cos \mu \end{array} \right\} 941158$	$\lg \frac{p_0}{q_0} = 014748$	$h = 0.9662$	$e = 0.2580$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	14°57	14°57	0°00	14°57	0°00	0'2670	0	0'2670
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	p	∞	110	54 33	"	"	90 00	54 33	35 27	1'4043'	∞	"
5	m	∞ $\frac{3}{2}$	230	43 07	"	"	"	43 07	46 53	0'9362	"	"
6	n	∞2	120	35 04'	"	"	"	35 04'	54 55'	0'7023	"	"
7	s	∞3	130	25 05	"	"	"	25 05	64 55	0'4681	"	"
8	q	01	011	28 19	29 22'	14 57	26 22	13 27'	25 35	0'2670	0'4956	0'5630
9	r	-20	201	90 00	48 22	48 22	0 00	48 22	0 00	1'1249	0	1'1249
10	o	+1	111	62 46	47 17	43 55	26 22	40 47'	19 39	0'9631	0'4956	1'0830
11	u	-1	111	40 25'	33 14'	23 13	"	21 01'	24 29	0'4289	"	0'6554

Pinakiolith.

Rhombisch.

$a = 0.8338$	$\lg a = 992106$	$\lg a_0 = 015161$	$\lg p_0 = 984839$	$a_0 = 1.4178$	$p_0 = 0.7053$
$c = 0.5881$	$\lg c = 976945$	$\lg b_0 = 023055$	$\lg q_0 = 976945$	$b_0 = 1.7004$	$q_0 = 0.5881$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	l	3 ∞	310	74 28	"	90 00	"	74 28	15 32	3.5978	"	"
3	e	01	011	0 00	30 27	0 00	30 27	0 00	30 27	0	0.5881	0.5881

Pinnoit.

Tetragonal. Pyramidal-hemiedrisch.

$\frac{c}{p_0} = 1.0761$	$\lg c = 003185$	$\lg a_0 = 996815$	$a_0 = 0.9293$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	∞	110	45°00	90°00	90°00	90°00	45°00	45°00	1	∞	∞
2	o	01	011	0 00	47 06	0 00	47 06	0 00	47 06	0	1.0761	1.0761
3	d	$\frac{1}{2}$	112	45 00	37 16	28 17	28 17	25 21	25 21	0.5380	0.5380	0.7609
4	z	$\frac{1}{2}1$	122	26 34	50 16	"	47 06	20 07	43 27	"	1.0761	1.2031

Pisanit.

Monoklin.

$a = 1.161$	$\lg a = 006483$	$\lg a_0 = 988557$	$\lg p_0 = 011443$	$a_0 = 0.7684$	$p_0 = 1.3014$
$c = 1.511$	$\lg c = 017926$	$\lg b_0 = 982074$	$\lg q_0 = 016345$	$b_0 = 0.6618$	$q_0 = 1.4570$
$\mu = \lambda \begin{matrix} 74^\circ 38' \\ 180 - \beta \end{matrix}$	$\lg h = \begin{matrix} 998419 \\ \lg \sin \mu \end{matrix}$	$\lg e = \begin{matrix} 942324 \\ \lg \cos \mu \end{matrix}$	$\lg \frac{p_0}{q_0} = 995098$	$h = 0.9642$	$e = 0.2650$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	15°22	15°22	0°00	15°22	0°00	0.2748	0	0.2748
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	m	∞	110	41 46	"	90 00	"	41 46	48 13	0.8923	"	"
4	o	01	011	10 18	56 56	15 22	56 30	8 37	55 32	0.2748	1.5110	1.5358
5	w	$\frac{1}{2}0$	103	90 00	35 56	35 56	0 00	35 56	0 00	0.7247	0	0.7247
6	t	-10	101	90 00	47 04	47 04	"	47 04	"	1.0748	"	1.0748
7	q	$-\frac{1}{2}$	112	27 54	40 31	21 48	37 04	17 42	35 03	0.4000	0.7555	0.8549

Plagionit.

Monoklin.

a = 1'1331	lg a = 005427	lg a ₀ = 012711	lg p ₀ = 987289	a ₀ = 1'3400	p ₀ = 0'7463
c = 0'8456	lg c = 992716	lg b ₀ = 007284	lg q ₀ = 990735	b ₀ = 1'1826	q ₀ = 0'8079
$\mu = \left. \begin{matrix} \\ 180-\beta \end{matrix} \right\} 72^{\circ}49'$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 998019$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 947025$	lg $\frac{p_0}{q_0}$ = 996554	h = 0'9554	e = 0'2953

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	17°10'	17°10'	0°00	17°10'	0°00	0'3091	0	0'3091
2	a	∞0	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	d	04	041	5 13'	73 35'	17 10'	73 32	5 00'	72 48	0'3091	3'3824	3'3964
4	y	+3	331	46 16'	74 45'	69 20'	68 29	44 12'	41 49'	2'6525	2'5367	3'6702
5	x	+2	221	47 54	68 22'	61 53	59 24	43 36'	38 33'	1'8713	1'6912	2'5223
6	n	+1	111	52 12	54 04	47 28'	40 13	39 46'	29 45	1'0902	0'8456	1'3797
7	e	+ $\frac{1}{2}$	112	58 51'	39 16	34 59	22 55	32 48	19 06'	0'6996'	0'4228	0'8175
8	p	+ $\frac{1}{4}$	114	67 17	28 40	26 46	11 55'	26 16	10 40'	0'5044	0'2112	0'5468
9	s	-- $\frac{1}{2}$	112	10 54'	23 18	4 39'	22 55	4 17'	22 51	0'0815	0'4228	0'4306

Platin.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	$\left\{ \begin{matrix} - \\ 0^{\circ}00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^{\circ}00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^{\circ}00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^{\circ}00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^{\circ}00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0^{\circ}00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$
2	a	$\left\{ \begin{matrix} 0\frac{1}{3} \\ 03 \\ \infty 3 \end{matrix} \right.$	$\left\{ \begin{matrix} 013 \\ 031 \\ 130 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 18 26 \end{matrix} \right.$	$\left\{ \begin{matrix} 18 26 \\ 71 34 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 18 26 \\ 71 34 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 18 26 \end{matrix} \right.$	$\left\{ \begin{matrix} 18 26 \\ 71 34 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 0'3333 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'3333 \\ 3'0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0'3333 \\ 3'0000 \\ \infty \end{matrix} \right.$
3	e	$\left\{ \begin{matrix} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{matrix} \right.$	$\left\{ \begin{matrix} 012 \\ 021 \\ 120 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 26 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 26 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \\ 0'5000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'5000 \\ 2'0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0'5000 \\ 2'0000 \\ \infty \end{matrix} \right.$
4	h	$\left\{ \begin{matrix} 0\frac{2}{3} \\ 0\frac{1}{3} \\ \infty \frac{2}{3} \end{matrix} \right.$	$\left\{ \begin{matrix} 035 \\ 053 \\ 350 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 30 58 \end{matrix} \right.$	$\left\{ \begin{matrix} 30 58 \\ 59 02 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 30 58 \\ 59 02 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 30 58 \end{matrix} \right.$	$\left\{ \begin{matrix} 30 58 \\ 59 02 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \\ 0'6000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'6000 \\ 1'6667 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0'6000 \\ 1'6667 \\ \infty \end{matrix} \right.$
5	b	$\left\{ \begin{matrix} 0\frac{2}{3} \\ 0\frac{1}{3} \\ \infty \frac{2}{3} \end{matrix} \right.$	$\left\{ \begin{matrix} 023 \\ 032 \\ 230 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 33 41' \end{matrix} \right.$	$\left\{ \begin{matrix} 33 41' \\ 56 18' \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 33 41' \\ 56 18' \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ " \\ 33 41' \end{matrix} \right.$	$\left\{ \begin{matrix} 33 41' \\ 56 18' \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \\ 0'6667 \end{matrix} \right.$	$\left\{ \begin{matrix} 0'6667 \\ 1'5000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0'6667 \\ 1'5000 \\ \infty \end{matrix} \right.$
6	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ 1'0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 1'0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 1'0000 \\ \infty \end{matrix} \right.$
7	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1'0000	1'4142

Polianit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.6647 \quad \lg c = 982263 \quad \lg a_0 = 017737 \quad a_0 = 1.5044$$

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	m	∞	110	45 00	"	90 00	"	45 00	45 00	1.0000	"	"
3	h	∞^2	120	26 34	"	"	"	26 34	63 26	0.5000	"	"
4	e	01	011	0 00	33 37	0 00	33 37	0 00	33 37	0	0.6647	0.6647
5	l	02	021	"	53 03	"	53 03	"	53 03	"	1.3294	1.3294
6	s	1	111	45 00	43 14	33 36'	33 36'	28 58	28 58	0.6647	0.6647	0.9400
7	ϱ	2	221	"	61 59'	53 03	53 03	38 38	38 38	1.3294	1.3294	1.8800
8	z	23	231	33 41'	67 21	"	63 22	30 47'	50 09'	"	1.9941	2.3966

Pollucit.

Regulär.

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	$\left\{ \begin{matrix} - \\ 0°00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$
2	e	$\left\{ \begin{matrix} 0\frac{1}{2} \\ 02 \\ \infty^2 \end{matrix} \right.$	$\left\{ \begin{matrix} 012 \\ 021 \\ 120 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 26 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 26 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ " \\ 0.5000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0.5000 \\ 2.0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0.5000 \\ 2.0000 \\ \infty \end{matrix} \right.$
3	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ 1.0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$
4	q	$\left\{ \begin{matrix} \frac{1}{2} \\ 12 \end{matrix} \right.$	$\left\{ \begin{matrix} 112 \\ 121 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 26 34 \end{matrix} \right.$	$\left\{ \begin{matrix} 35 16 \\ 65 54' \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 26 34 \\ 63 26 \end{matrix} \right.$	$\left\{ \begin{matrix} 24 05' \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 24 05' \\ 54 44 \end{matrix} \right.$	$\left\{ \begin{matrix} 0.5000 \\ 1.0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0.5000 \\ 2.0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 0.7071 \\ 2.2360 \end{matrix} \right.$

Polyargyrit.

Regulär.

N _o	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	$\left\{ \begin{matrix} 001 \\ 010 \end{matrix} \right.$	$\left\{ \begin{matrix} - \\ 0°00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0°00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$
2	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} " \\ 1.0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$
3	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1.0000	1.4142

Polybasit.

Rhombisch? [Monoklin?]

$a = 1.7309$	$\lg a = 0.23828$	$\lg a_0 = 0.03973$	$\lg p_0 = 9.96027$	$a_0 = 1.0958$	$p_0 = 0.9126$
$c = 1.5796$	$\lg c = 0.19855$	$\lg b_0 = 9.80145$	$\lg q_0 = 0.19855$	$b_0 = 0.6331$	$q_0 = 1.5796$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	l	3∞	310	60°01	90 00	90 00	90 00	60 01	29 59	1.7332	∞	∞
3	m	∞	110	30 01	"	"	"	30 01	59 59	0.5777	"	"
4	w	$\frac{1}{3}0$	109	90 00	5 47'	5 47'	0 00	5 47'	0 00	0.1014	0	0.1014
5	l'	$-\frac{2}{3}0$	203	"	31 19	31 19	"	31 19	"	0.6084	"	0.6084
6	nn'	± 10	101	"	42 23	42 23	"	42 23	"	0.9126	"	0.9126
7	x	$-\frac{4}{3}0$	403	"	50 35	50 35	"	50 35	"	1.2168	"	1.2168
8	t	-20	201	"	61 17	61 17	"	61 17	"	1.8252	"	1.8252
9	oo'	$\pm \frac{1}{4}$	114	30 01	24 31	12 51	21 33	11 59	21 03'	0.2281	0.3949	0.4561
10	rr	$\pm \frac{1}{2}$	112	"	42 22	24 31'	38 18	19 42	35 42	0.4563	0.7898	0.9121
11	pp'	± 1	111	"	61 16	42 23	57 40	26 01	49 24	0.9126	1.5796	1.8243
12	s	± 2	221	"	74 40'	61 17	72 26	28 51	56 37'	1.8252	3.1592	3.6486
13	u	± 3	331	"	79 38'	69 56	78 05	29 28'	58 24'	2.7378	4.7388	5.4727

Polydymit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	= tge d
1	c	$\begin{cases} 0 \\ 0\infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1.0000	1.0000	1.4142

Polyhalit.

Rhombisch. (?)

$$\lg \frac{p_0}{q_0} = 0.19579; \quad \frac{p_0}{q_0} = 1.5696; \quad \frac{a}{b} = 0.6371$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	57 30	"	90 00	"	57 30	32 30	1.5696	"	"

Polykras.

Rhombisch.

$a = 0.3462$	$\lg a = 953933$	$\lg a_0 = 004462$	$\lg p_0 = 995538$	$a_0 = 1.1082$	$p_0 = 0.9024$
$c = 0.3124$	$\lg c = 949471$	$\lg b_0 = 050529$	$\lg q_0 = 949471$	$b_0 = 3.2010$	$q_0 = 0.3124$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	b	∞0	100	90°00	"	90°00	0°00	90°00	0°00	∞	0	"
4	m	∞	110	70°54	"	"	90°00	70°54	19°06	2.8884	∞	"
5	l	01	011	0°00	17°21	0°00	17°21	0°00	17°21	0	0.3124	0.3124
6	u	10	101	90°00	42°03'	42°03'	0°00	42°03'	0°00	0.9023	0	0.9023
7	x	20	201	"	61°00'	61°00'	"	61°00'	"	1.8047	"	1.8047
8	q	30	301	"	69°43'	69°43'	"	69°43'	"	2.7070	"	2.7070
9	s	1	111	70°54	43°40'	42°03'	17°21	40°44'	13°03'	0.9023	0.3124	0.9549
10	z	12	121	55°18	47°40	"	32°00	37°25'	24°53	"	0.6248	1.0975
11	r	13	131	43°55	52°27	"	43°08'	33°21'	34°50	"	0.9372	1.3010

Polymignyt.

Rhombisch.

$a = 0.7121$	$\lg a = 985254$	$\lg a_0 = 014319$	$\lg p_0 = 985681$	$a_0 = 1.3906$	$p_0 = 0.7191$
$c = 0.5121$	$\lg c = 970935$	$\lg b_0 = 029065$	$\lg q_0 = 970935$	$b_0 = 1.9528$	$q_0 = 0.5121$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	a	∞0	100	90°00	"	90°00	0°00	90°00	0°00	∞	0	"
4	l	2∞	210	70°24	"	"	90°00	70°24	19°36	2.8086	∞	"
5	m	∞	110	54°32'	"	"	"	54°32'	35°27'	1.4043	"	"
6	s	∞2	120	35°04'	"	"	"	35°04'	54°55'	0.7021	"	"
7	t	∞4	140	19°20'	"	"	"	19°20'	70°39'	0.3511	"	"
8	p	1	111	54°33	41°26'	35°43	27°07	32°37'	22°34'	0.7191	0.5121	0.8828
9	q	1 $\frac{3}{2}$	232	43°07	46°27'	"	37°32	29°41'	31°57	"	0.7681	1.0522
10	r	13	131	25°05'	59°29	"	56°56'	21°25	51°17	"	1.5363	1.6962

Powellit.

Tetragonal.

$\frac{c}{p_0}$	$= 1.5445$	$\lg c = 0.18879$	$\lg a_0 = 9.81121$	$a_0 = 0.6475$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	e	01	011	0°00	57 04'	"	57 04'	"	57 04'	"	1.5445	1.5445
3	p	1	111	45 00	65 24	57 04'	"	40 00'	40 00'	1.5445	"	2.1842

Prehnit.

Rhombisch.

a = 0.8405	lga = 9.92454	lga ₀ = 9.87505	lgp ₀ = 0.12495	a ₀ = 0.7500	p ₀ = 1.3334
c = 1.1207	lgc = 0.04949	lgb ₀ = 9.95051	lgq ₀ = 0.04949	b ₀ = 0.8923	q ₀ = 1.1207

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	49 57	"	"	90 00	49 57	40 03	1.1897	∞	"
5	?p	∞3	130	21 38	"	"	"	21 38	68 22	0.3966	"	"
6	o	03	031	0 00	73 26	0 00	73 26	0 00	73 26	0	3.3620	3.3620
7	v	$\frac{3}{8}0$	308	90 00	26 34	26 34	0 00	26 34	0 00	0.5000	0	0.5000
8	n	$\frac{3}{4}0$	304	"	45 00	45 00	"	45 00	"	1.0000	"	1.0000
9	q	10	101	"	53 08	53 08	"	53 08	"	1.3333	"	1.3333
10	t	$\frac{3}{2}0$	302	"	63 26	63 26	"	63 26	"	2.0000	"	2.0000
11	u	30	301	"	75 58	75 58	"	75 58	"	4.0000	"	4.0000
12	w	50	501	"	81 28	81 28	"	81 28	"	6.6668	"	6.6668
13	r	1	111	49 57	60 08'	53 08	48 15'	41 36	33 55	1.3333	1.1207	1.7418
14	s	3	331	"	79 10	75 58	73 26	48 45	39 11'	4.0001	3.3621	5.2252
15	x	4	441	"	81 50	79 23	77 25'	49 16	39 33'	5.3335	4.4828	6.9670
16	?y	13	131	21 38	74 32'	53 08	73 26	20 49	63 38	1.3333	3.3621	3.6168

Prismatin.

Rhombisch.

$a = 0.862$	$\lg a = 993551$	$\lg a_o = 001643$	$\lg p_o = 998357$	$a_o = 1.0385$	$p_o = 0.9629$
$c = 0.83$	$\lg c = 991908$	$\lg b_o = 008092$	$\lg q_o = 991908$	$b_o = 1.2048$	$q_o = 0.8300$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	0∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	c	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	e	∞	110	49 14'	"	"	90 00	49 14'	40 45'	1.1600	∞	"
4	m	10	101	90 00	43 55	43 55	0 00	43 55	0 00	0.9628	0	0.9628
5	n	½0	102	"	25 42'	25 42'	"	25 42'	"	0.4814	"	0.4814

Prosopit.

Monoklin.

$a = 1.3188$	$\lg a = 012018$	$\lg a_o = 034566$	$\lg p_o = 965434$	$a_o = 2.2160$	$p_o = 0.4512$
$c = 0.5950$	$\lg c = 977452$	$\lg b_o = 022548$	$\lg q_o = 977328$	$b_o = 1.6807$	$q_o = 0.5933$
$\mu = \begin{cases} 180 \\ -\beta \end{cases} \begin{cases} 85 \\ 40 \end{cases}$	$\lg h = \begin{cases} 999876 \\ \lg \sin \mu \end{cases}$	$\lg e = \begin{cases} 887829 \\ \lg \cos \mu \end{cases}$	$\lg \frac{p_o}{q_o} = 988106$	$h = 0.9971$	$e = 0.0755$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	l	0∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	d	∞	110	37 15	"	90 00	"	37 15	52 45	0.7604	"	"
3	o	01	011	7 15'	30 57'	4 20	30 45	3 43'	30 41	0.0758	0.5950	0.5998
4	x	03	031	2 26	60 46	"	60 44'	2 07'	60 40'	"	1.7850	1.7866
5	t	-1	111	32 20'	35 09'	20 39	30 45	17 56'	29 06'	0.3768	0.5950	0.7043
6	z	+21	211	58 45'	48 55	44 26'	"	40 07'	23 01	0.9807	"	1.1471
7	y	+23	231	28 47	63 51	"	60 44'	25 36'	51 53	"	1.7850	2.0367

Pseudobrookit.

Rhombisch.

a = 0.8738	lga = 994141	lga ₀ = 999407	lgp ₀ = 000593	a ₀ = 0.9864	p ₀ = 1.0137
c = 0.8858	lgc = 994734	lgb ₀ = 005266	lq ₀ = 994734	b ₀ = 1.1289	q ₀ = 0.8858

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	c	0∞	010	0°00	90 00	90 00	90 00	90 00	90 00	∞	∞	∞
3	a	∞0	100	90 00	0 00	90 00	0 00	90 00	0 00	∞	0	∞
4	d	∞	110	48 51	90 00	90 00	90 00	48 51	41 09	1.1444	∞	∞
5	e	∞3	130	20 53	90 00	90 00	90 00	20 53	69 07	0.3815	∞	∞
6	y	01	011	0 00	41 32	0 00	41 32	0 00	41 32	0	0.8858	0.8858
7	n	$\frac{1}{2}$ 0	102	90 00	26 53	26 53	0 00	26 53	0 00	0.5069	0	0.5069
8	l	10	101	90 00	45 23	45 23	90 00	45 23	90 00	1.0137	∞	1.0137
9	m	20	201	90 00	63 45	63 45	90 00	63 45	90 00	2.0275	∞	2.0275
10	p	$\frac{1}{3}$ 1	133	20 53	43 28	18 40	41 32	14 11	40 00	0.3379	0.8858	0.9481
11	q	13	131	90 00	70 37	45 23	69 22	19 39	61 49	1.0137	2.6574	2.8442
12	?s	$\frac{1}{2}$ $\frac{3}{2}$	132	90 00	54 53	26 53	53 02	16 57	49 50	0.5069	1.3287	1.4221

Pucherit.

Rhombisch.

a = 0.5327	lga = 972648	lga ₀ = 965911	lgp ₀ = 034089	a ₀ = 0.4561	p ₀ = 2.1922
c = 1.1678	lgc = 006737	lgb ₀ = 993263	lq ₀ = 006737	b ₀ = 5.8563	q ₀ = 1.1678

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	100	90°00	90 00	90 00	90 00	90 00	90 00	∞	∞	∞
3	t	∞	110	61 57	90 00	90 00	90 00	61 57	28 02	1.8772	∞	∞
4	w	01	011	0 00	49 25	0 00	49 25	0 00	49 25	0	1.1678	1.1678
5	x	02	021	90 00	66 49	90 00	66 49	90 00	66 49	0	2.3356	2.3356
6	n	1	111	61 57	68 04	65 29	49 25	54 57	25 51	2.1922	1.1678	2.4839
7	e	12	121	43 11	72 40	90 00	66 49	40 47	44 07	0	2.3356	3.2032

Pyrit.

Regulär. Pentagonal-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
			010	0° 00	90 00	"	90 00	"	90 00	"	"	∞
2	a	$\left\{ \begin{array}{l} 0\frac{1}{3} \\ 09 \\ \infty 9 \end{array} \right.$	019	"	6 20'	"	6 20'	"	6 20'	"	0'1111	0'1111
			091	"	83 39'	"	83 39'	"	83 39'	"	9'0000	9'0000
			190	6 20'	90 00	90 00	90 00	6 20'	"	0'1111	∞	∞
3	b	$\left\{ \begin{array}{l} 0\frac{1}{8} \\ 08 \\ \infty 8 \end{array} \right.$	018	0 00	7 07'	0 00	7 07'	0 00	7 07'	0	0'1250	0'1250
			081	"	82 52'	"	82 52'	"	82 52'	"	8'0000	8'0000
			180	7 07'	90 00	90 00	90 00	7 07'	"	0'1250	∞	∞
4	? τ	$\left\{ \begin{array}{l} 0\frac{1}{7} \\ 07 \\ \infty 7 \end{array} \right.$	017	0 00	8 08	0 00	8 08	0 00	8 08	0	0'1429	0'1429
			071	"	81 52	"	81 52	"	81 52	"	7'0000	7'0000
			170	8 08	90 00	90 00	90 00	8 08	"	0'1429	∞	∞
5	p	$\left\{ \begin{array}{l} 0\frac{1}{6} \\ 06 \\ \infty 6 \end{array} \right.$	016	0 00	9 27'	0 00	9 27'	0 00	9 27'	0	0'1667	0'1667
			061	"	80 32'	"	80 32'	"	80 32'	"	6'0000	6'0000
			160	9 27'	90 00	90 00	90 00	9 27'	"	0'1667	∞	∞
6	d	$\left\{ \begin{array}{l} 0\frac{2}{3} \\ 09 \\ \infty \frac{2}{3} \end{array} \right.$	029	0 00	12 31'	0 00	12 31'	0 00	12 31'	0	0'2222	0'2222
			092	"	77 28'	"	77 28'	"	77 28'	"	4'5000	4'5000
			290	12 31'	90 00	90 00	90 00	12 31'	"	0'2222	∞	∞
7	f	$\left\{ \begin{array}{l} 0\frac{1}{4} \\ 04 \\ \infty 4 \end{array} \right.$	014	0 00	14 02	0 00	14 02	0 00	14 02	0	0'2500	0'2500
			041	"	75 58	"	75 58	"	75 58	"	4'0000	4'0000
			140	14 02	90 00	90 00	90 00	14 02	"	0'2500	∞	∞
8	e	$\left\{ \begin{array}{l} 0\frac{2}{3} \\ 07 \\ \infty \frac{2}{3} \end{array} \right.$	027	0 00	15 56'	0 00	15 56'	0 00	15 56'	0	0'2857	0'2857
			072	"	74 03'	"	74 03'	"	74 03'	"	3'5000	3'5000
			270	15 56'	90 00	90 00	90 00	15 56'	"	0'2857	∞	∞
9	f	$\left\{ \begin{array}{l} 0\frac{3}{10} \\ 0\frac{1}{3} \\ \infty \frac{3}{10} \end{array} \right.$	0'3'10	0 00	16 42	0 00	16 42	0 00	16 42	0	0'3000	0'3000
			0'10'3	"	73 18	"	73 18	"	73 18	"	3'3333	3'3333
			3'10'0	16 42	90 00	90 00	90 00	16 42	"	0'3000	∞	∞
10	a	$\left\{ \begin{array}{l} 0\frac{1}{3} \\ 03 \\ \infty 3 \end{array} \right.$	013	0 00	18 26	0 00	18 26	0 00	18 26	0	0'3333	0'3333
			031	"	71 34	"	71 34	"	71 34	"	3'0000	3'0000
			130	18 26	90 00	90 00	90 00	18 26	"	0'3333	∞	∞
11	g	$\left\{ \begin{array}{l} 0\frac{4}{11} \\ 0\frac{1}{4} \\ \infty \frac{4}{11} \end{array} \right.$	0'4'11	0 00	19 59	0 00	19 59	0 00	19 59	0	0'3636	0'3636
			0'11'4	"	70 01	"	70 01	"	70 01	"	2'7500	2'7500
			4'11'0	19 59	90 00	90 00	90 00	19 59	"	0'3636	∞	∞
12	g	$\left\{ \begin{array}{l} 0\frac{2}{5} \\ 0\frac{3}{5} \\ \infty \frac{2}{5} \end{array} \right.$	025	0 00	21 48	0 00	21 48	0 00	21 48	0	0'4000	0'4000
			052	"	68 12	"	68 12	"	68 12	"	2'5000	2'5000
			250	21 48	90 00	90 00	90 00	21 48	"	0'4000	∞	∞
13	h	$\left\{ \begin{array}{l} 0\frac{3}{4} \\ 0\frac{3}{4} \\ \infty \frac{3}{4} \end{array} \right.$	049	0 00	23 58	0 00	23 58	0 00	23 58	0	0'4444	0'4444
			094	"	66 02	"	66 02	"	66 02	"	2'2500	2'2500
			490	23 58	90 00	90 00	90 00	23 58	"	0'4444	∞	∞
14	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	012	0 00	26 34	0 00	26 34	0 00	26 34	0	0'5000	0'5000
			021	"	63 26	"	63 26	"	63 26	"	2'0000	2'0000
			120	26 34	90 00	90 00	90 00	26 34	"	0'5000	∞	∞

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ	
15	a	$\left\{ \begin{array}{l} 0 \frac{4}{4} \\ 0 \frac{7}{4} \\ \infty \frac{4}{4} \end{array} \right.$	047 074 470	0° 00 " 29 44'	29° 44' 60 15' 90 00	0° 00 " 90 00 90 00	29° 44' 60 15' 90 00	0° 00 " 29 44'	29° 44' 60 15'	0 " 0'5714	0'5714 1'7500 ∞	0'5714 1'7500 ∞	
		A	$\left\{ \begin{array}{l} 0 \frac{7}{12} \\ 0 \frac{12}{7} \\ \infty \frac{12}{7} \end{array} \right.$	0'7'12 0'12'7 7'12'0	0 00 " 30 15' 30 15'	30 15' 59 44' 90 00	0 00 " 90 00 90 00	30 15' 59 44' 90 00	0 00 " 30 15'	30 15' 59 44'	0 " 0'5833	0'5833 1'7143 ∞	0'5833 1'7143 ∞
			h	$\left\{ \begin{array}{l} 0 \frac{5}{3} \\ 0 \frac{3}{5} \\ \infty \frac{5}{3} \end{array} \right.$	035 053 350	0 00 " 30 58'	30 58' 59 02' 90 00	0 00 " 90 00 90 00	30 58' 59 02' 90 00	0 00 " 30 58'	30 58' 59 02'	0 " 0'6000	0'6000 1'6667 ∞
b	$\left\{ \begin{array}{l} 0 \frac{2}{3} \\ 0 \frac{3}{2} \\ \infty \frac{2}{3} \end{array} \right.$			023 032 230	0 00 " 33 41'	33 41' 56 18' 90 00	0 00 " 90 00 90 00	33 41' 56 18' 90 00	0 00 " 33 41'	33 41' 56 18'	0 " 0'6667	0'6667 1'5000 ∞	0'6667 1'5000 ∞
	i	$\left\{ \begin{array}{l} 0 \frac{3}{4} \\ 0 \frac{4}{3} \\ \infty \frac{3}{4} \end{array} \right.$		034 043 340	0 00 " 36 52'	36 52' 53 08' 90 00	0 00 " 90 00 90 00	36 52' 53 08' 90 00	0 00 " 36 52'	36 52' 53 08'	0 " 0'7500	0'7500 1'3333 ∞	0'7500 1'3333 ∞
		δ	$\left\{ \begin{array}{l} 0 \frac{4}{5} \\ 0 \frac{5}{4} \\ \infty \frac{4}{5} \end{array} \right.$	045 054 450	0 00 " 38 39'	38 39' 51 20' 90 00	0 00 " 90 00 90 00	38 39' 51 20' 90 00	0 00 " 38 39'	38 39' 51 20'	0 " 0'8000	0'8000 1'2500 ∞	0'8000 1'2500 ∞
η			$\left\{ \begin{array}{l} 0 \frac{9}{11} \\ 0 \frac{11}{9} \\ \infty \frac{9}{11} \end{array} \right.$	0'9'11 0'11'9 9'11'0	0 00 " 39 17'	39 17' 50 42' 90 00	0 00 " 90 00 90 00	39 17' 50 42' 90 00	0 00 " 39 17'	39 17' 50 42'	0 " 0'8182	0'8182 1'2222 ∞	0'8182 1'2222 ∞
	ζ		$\left\{ \begin{array}{l} 0 \frac{5}{6} \\ 0 \frac{6}{5} \\ \infty \frac{5}{6} \end{array} \right.$	056 065 560	0 00 " 39 48'	39 48' 50 11' 90 00	0 00 " 90 00 90 00	39 48' 50 11' 90 00	0 00 " 39 48'	39 48' 50 11'	0 " 0'8333	0'8333 1'2000 ∞	0'8333 1'2000 ∞
		γ	$\left\{ \begin{array}{l} 0 \frac{6}{7} \\ 0 \frac{7}{6} \\ \infty \frac{6}{7} \end{array} \right.$	067 076 670	0 00 " 40 36'	40 36' 49 24' 90 00	0 00 " 90 00 90 00	40 36' 49 24' 90 00	0 00 " 40 36'	40 36' 49 24'	0 " 0'8572	0'8572 1'1667 ∞	0'8572 1'1667 ∞
Γ			$\left\{ \begin{array}{l} 0 \frac{7}{8} \\ 0 \frac{8}{7} \\ \infty \frac{7}{8} \end{array} \right.$	078 087 780	0 00 " 41 11'	41 11' 48 48' 90 00	0 00 " 90 00 90 00	41 11' 48 48' 90 00	0 00 " 41 11'	41 11' 48 48'	0 " 0'8750	0'8750 1'1429 ∞	0'8750 1'1429 ∞
	d		$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011 110	0 00 45 00	45 00 90 00	0 00 90 00 90 00	45 00 90 00 90 00	0 00 45 00	45 00	0 1'0000	1'0000 ∞	1'0000 ∞
		ξ	$\left\{ \begin{array}{l} \frac{1}{9} \\ \frac{9}{1} \\ \infty \end{array} \right.$	119 191	" 6 20'	8 56' 83 42'	6 20' 45 00	6 20' 83 39'	6 18 81 04	6 18	0'1111 1'0000	0'1111 9'0000	0'1571 9'0552
l			$\left\{ \begin{array}{l} \frac{1}{15} \\ \frac{15}{1} \\ \infty \end{array} \right.$	115 151	45 00 11 18'	15 47' 78 54'	11 18' 45 00	11 18' 78 41'	11 06 74 12'	11 06	0'2000 1'0000	0'2000 5'0000	0'2828 5'0989
	k		$\left\{ \begin{array}{l} \frac{1}{14} \\ \frac{14}{1} \\ \infty \end{array} \right.$	114 141	45 00 14 02	19 28' 76 22'	14 02 45 00	14 02 75 58'	13 38 70 32	13 38	0'2500 1'0000	0'2500 4'0000	0'3535 4'1231
		m	$\left\{ \begin{array}{l} \frac{1}{13} \\ \frac{13}{1} \\ \infty \end{array} \right.$	113 131	45 00 18 26	25 14' 72 27'	18 26 45 00	18 26 71 34'	17 33 64 45'	17 33	0'3333 1'0000	0'3333 3'0000	0'4714 3'1623
o			$\left\{ \begin{array}{l} \frac{2}{1} \\ \frac{1}{2} \\ \infty \end{array} \right.$	225 252	45 00 21 48	29 30' 69 37'	21 48 45 00	21 48 68 12'	20 22' 60 30	20 22'	0'4000 1'0000	0'4000 2'5000	0'5657 2'6924

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
31	q	$\left\{ \begin{array}{l} \frac{4}{9} \\ 1\frac{1}{4} \end{array} \right.$	449	45°00	32°09	23°58	23°58	22°06	22°06	0'4444	0'4444	0'6285
			494	23 58	67 54	45 00	66 02	"	57 51	1'0000	2'2500	2'4622
32	π	$\left\{ \begin{array}{l} \frac{5}{11} \\ 1\frac{1}{5} \end{array} \right.$	5'5'11	45 00	32 44	24 26	24 26	22 29	22 29	0'4545	0'4545	0'6428
			5'11'5	24 26	67 31	45 00	65 33	"	57 16	1'0000	2'2000	2'4166
33	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 1\frac{1}{2} \end{array} \right.$	112	45 00	35 16	26 34	26 34	24 05	24 05	0'5000	0'5000	0'7071
			121	26 34	65 54	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
34	n	$\left\{ \begin{array}{l} \frac{2}{3} \\ 1\frac{2}{3} \end{array} \right.$	223	45 00	43 19	33 41	33 41	29 01	29 01	0'6667	0'6667	0'9428
			232	33 41	60 59	45 00	56 18	"	46 41	1'0000	1'5000	1'8028
35	t	$\left\{ \begin{array}{l} \frac{3}{4} \\ 1\frac{3}{4} \end{array} \right.$	334	45 00	46 41	36 52	36 52	30 58	30 58	0'7500	0'7500	1'0606
			343	36 52	59 02	45 00	53 08	"	43 19	1'0000	1'3333	1'6667
36	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
37	Ω	$\left\{ \begin{array}{l} \frac{1}{6} \\ 6 \end{array} \right.$	166	9 27	45 23	9 27	"	6 43	44 36	0'1667	"	1'0138
			661	45 00	83 17	80 32	80 32	44 36	"	6'0000	6'0000	8'4852
38	v	$\left\{ \begin{array}{l} \frac{1}{3} \\ 3 \end{array} \right.$	133	18 26	46 30	18 26	45 00	13 16	43 29	0'3333	1'0000	1'0541
			331	45 00	76 44	71 34	71 34	43 29	"	3'0000	3'0000	4'2426
39	u	$\left\{ \begin{array}{l} \frac{1}{2} \\ 2 \end{array} \right.$	122	26 34	48 11	26 34	45 00	19 28	41 48	0'5000	1'0000	1'1180
			221	45 00	70 31	63 26	63 26	41 48	"	2'0000	2'0000	2'8284
40	w	$\left\{ \begin{array}{l} \frac{2}{3} \\ \frac{3}{2} \end{array} \right.$	233	33 41	50 14	33 41	45 00	25 14	39 45	0'6667	1'0000	1'2019
			332	45 00	64 45	56 18	56 18	39 45	"	1'5000	1'5000	2'1213
41	A	$\left\{ \begin{array}{l} \frac{1}{2} \\ \frac{1}{6} \\ 6 \end{array} \right.$	1'6'12	9 27	26 53	4 46	26 34	4 16	26 29	0'0833	0'5000	0'5069
			1'12'6	4 46	63 31	9 27	63 26	"	63 07	0'1667	2'0000	2'0069
			6'12'1	26 34	85 44	80 32	85 14	26 29	"	6'0000	12'000	13'416
42	B	$\left\{ \begin{array}{l} \frac{1}{3} \\ \frac{1}{2} \\ 5 \end{array} \right.$	1'5'10	11 18	27 01	5 42	26 34	5 06	26 27	0'1000	0'5000	0'5099
			1'10'5	5 42	63 33	11 18	63 26	"	62 59	0'2000	2'0000	2'0099
			5'10'1	26 34	84 53	78 41	84 17	26 27	"	5'0000	10'000	11'180
43	C	$\left\{ \begin{array}{l} \frac{1}{8} \\ \frac{1}{2} \\ 48 \end{array} \right.$	148	14 02	27 16	7 07	26 34	6 22	26 23	0'1250	0'5000	0'5154
			184	7 07	63 36	14 02	63 26	"	62 44	0'2500	2'0000	2'0155
			481	26 34	83 37	75 58	82 52	26 23	"	4'0000	8'0000	8'9442
44	ψ	$\left\{ \begin{array}{l} \frac{1}{4} \\ \frac{1}{2} \\ 24 \end{array} \right.$	124	"	29 12	14 02	26 34	12 36	25 52	0'2500	0'5000	0'5590
			142	14 02	64 07	26 34	63 26	"	60 47	0'5000	2'0000	2'0615
			241	26 34	77 23	63 26	75 58	25 52	"	2'0000	4'0000	4'4721
45	D	$\left\{ \begin{array}{l} \frac{1}{3} \\ \frac{2}{3} \\ \frac{3}{2} \end{array} \right.$	236	33 41	31 00	18 26	26 34	16 36	25 22	0'3333	0'5000	0'6009
			263	18 26	64 37	33 41	63 26	"	59 00	0'6667	2'0000	2'1130
			362	26 34	73 24	56 18	71 34	25 22	"	1'5000	3'0000	3'3541
46	y	$\left\{ \begin{array}{l} \frac{1}{3} \\ \frac{2}{3} \\ \frac{3}{2} \end{array} \right.$	234	33 41	42 02	26 34	36 52	21 48	33 51	0'5000	0'7500	0'9014
			243	26 34	56 08	33 41	53 08	"	47 58	0'6667	1'3333	1'4907
			342	36 52	68 12	56 18	63 26	33 51	"	1'5000	2'0000	2'5000
47	x	$\left\{ \begin{array}{l} \frac{1}{4} \\ \frac{2}{3} \\ 23 \end{array} \right.$	123	26 34	36 42	18 26	33 41	15 30	32 18	0'3333	0'6667	0'7453
			132	18 26	57 41	26 34	56 18	"	53 18	0'5000	1'5000	1'5811
			231	33 41	74 30	63 26	71 34	32 18	"	2'0000	3'0000	3'6055

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
48	K	$\left\{ \begin{array}{l} \frac{7}{22} \frac{7}{11} \\ \frac{1}{2} \frac{1}{4} \\ 2 \frac{2}{2} \end{array} \right.$	7·14·22	26° 34	35° 26	17° 39	32° 28'	15° 01'	31° 14	0·3182	0·6364	0·7115
			7·22·14	17 39	58 46	26 34	57 31'	"	54 34	0·5000	1·5714	1·6490
			14·22·7	32 28'	74 58'	63 26	72 21	31 14	"	2·0000	3·1429	3·7252
49	I	$\left\{ \begin{array}{l} \frac{2}{7} \frac{4}{7} \\ \frac{1}{2} \frac{7}{4} \\ 2 \frac{7}{2} \end{array} \right.$	247	26 34	32 34	15 56'	29 44'	13 56	28 47	0·2857	0·5714	0·6389
			274	15 56'	61 13	26 34	60 15'	"	57 26	0·5000	1·7500	1·8200
			472	29 44'	76 04	63 26	74 03'	28 47	"	2·0000	3·5000	4·0312
50	H	$\left\{ \begin{array}{l} \frac{2}{9} \frac{4}{9} \\ \frac{1}{2} \frac{4}{4} \\ 2 \frac{9}{2} \end{array} \right.$	249	26 34	26 25'	12 32	23 58	11 29	23 27'	0·2222	0·4444	0·4969
			294	12 32	66 32'	26 34	66 02	"	63 34'	0·5000	2·2500	2·3049
			492	23 58	78 31	63 26	77 28	23 27'	"	2·0000	4·5000	4·9243
51	G	$\left\{ \begin{array}{l} \frac{3}{16} \frac{3}{8} \\ \frac{1}{2} \frac{3}{4} \\ 2 \frac{3}{2} \end{array} \right.$	3·6·16	26 34	22 45	10 37	20 33'	9 57'	20 14	0·1875	0·3750	0·4193
			3·16·6	10 37	69 46	26 34	69 26'	"	67 15	0·5000	2·6667	2·7131
			6·16·3	20 33'	80 02'	63 26	79 23	20 14	"	2·0000	5·3333	5·6959
52	Y	$\left\{ \begin{array}{l} \frac{1}{6} \frac{1}{3} \\ \frac{1}{2} 3 \\ 26 \end{array} \right.$	126	26 34	20 26'	9 27'	18 26	8 59	18 12	0·1667	0·3333	0·3727
			162	9 27'	71 48	26 34	71 34	"	69 33'	0·5000	3·0000	3·0413
			261	18 26	81 01	63 26	80 32'	18 12	"	2·0000	6·0000	6·3246
53	F	$\left\{ \begin{array}{l} \frac{1}{7} \frac{2}{7} \\ \frac{1}{2} \frac{7}{2} \\ 27 \end{array} \right.$	127	26 34	17 43	8 08	15 56'	7 49'	15 47'	0·1429	0·2857	0·3194
			172	8 08	74 12'	26 34	74 03'	"	72 17	0·5000	3·5000	3·5355
			271	15 56'	82 10'	63 26	81 52	15 47'	"	2·0000	7·0000	7·2802
54	L	$\left\{ \begin{array}{l} \frac{2}{9} \frac{1}{3} \\ \frac{2}{3} \frac{3}{3} \\ \frac{2}{9} \frac{3}{9} \end{array} \right.$	239	33 41'	21 50	12 32	18 26	11 54'	18 01'	0·2222	0·3333	0·4006
			293	12 32	71 58'	33 41'	71 34	"	68 10	0·6667	3·0000	3·0732
			392	18 26	78 05'	56 18'	77 28	18 01'	"	1·5000	4·5000	4·7434
55	N	$\left\{ \begin{array}{l} \frac{2}{9} \frac{2}{9} \\ \frac{1}{3} \frac{2}{3} \\ 3 \frac{2}{3} \end{array} \right.$	269	"	35 06	12 32	33 41'	10 28'	33 03'	0·2222	0·6667	0·7027
			296	12 32	56 56'	18 26	56 18'	"	54 54	0·3333	1·5000	1·5366
			692	33 41'	79 31'	71 34	77 28	33 03'	"	3·0000	4·5000	5·4082
56	z	$\left\{ \begin{array}{l} \frac{1}{3} \frac{3}{3} \\ \frac{1}{3} \frac{3}{3} \\ 35 \end{array} \right.$	135	18 26	32 18'	11 18'	30 58	9 44'	30 28	0·2000	0·6000	0·6325
			153	11 18'	59 32	18 26	59 02	"	57 41'	0·3333	1·6667	1·6996
			35	30 58	80 16	71 34	78 41'	30 28	"	3·0000	5·0000	5·8310
57	ω	$\left\{ \begin{array}{l} \frac{1}{4} \frac{3}{4} \\ \frac{1}{3} \frac{4}{3} \\ 34 \end{array} \right.$	134	18 26	38 19'	14 02	36 52	11 18'	36 02'	0·2500	0·7500	0·7906
			143	14 02	53 57'	18 26	53 08	"	51 40'	0·3333	1·3333	1·3743
			341	36 52	78 41'	71 34	75 58	36 02'	"	3·0000	4·0000	5·0000
58	R	$\left\{ \begin{array}{l} \frac{1}{7} \frac{5}{7} \\ \frac{1}{5} \frac{7}{5} \\ 57 \end{array} \right.$	157	11 18'	36 04	8 08	35 32'	6 38	35 16	0·1429	0·7143	0·7284
			175	8 08	54 44	11 18'	54 27'	"	53 56	0·2000	1·4000	1·4142
			571	35 32'	83 22	78 41'	81 52	35 16	"	5·0000	7·0000	8·6022
59	T	$\left\{ \begin{array}{l} \frac{1}{8} \frac{5}{8} \\ \frac{1}{5} \frac{8}{5} \\ 58 \end{array} \right.$	158	11 18'	32 30'	7 07'	32 00'	6 03	31 48'	0·1250	0·6250	0·6374
			185	7 07'	58 11'	11 18'	57 59'	"	57 29'	0·2000	1·6000	1·6124
			581	32 00'	83 57	78 41'	82 52'	31 48'	"	5·0000	8·0000	9·4338
60	S	$\left\{ \begin{array}{l} \frac{1}{10} \frac{3}{10} \\ \frac{1}{6} \frac{3}{6} \\ 6 \cdot 10 \end{array} \right.$	1·6·10	9 27'	31 18'	5 42'	30 58	4 54	30 50'	0·1000	0·6000	0·6083
			1·10·6	5 42'	59 09'	9 27'	59 02	"	58 41'	0·1667	1·6667	1·6750
			6·10·1	30 58	85 06	80 32'	84 17'	30 50'	"	6·0000	10·0000	11·662
61	O	$\left\{ \begin{array}{l} \frac{2}{15} \frac{3}{15} \\ \frac{1}{10} \frac{3}{10} \\ \frac{2}{15} \frac{3}{15} \end{array} \right.$	235	33 41'	35 48	21 48	30 58	18 56	29 07'	0·4000	0·6000	0·7211
			253	21 48	60 52'	33 41'	59 02	"	54 12	0·6667	1·6667	1·7951
			352	30 58	71 04	56 18'	68 12	29 07'	"	1·5000	2·5000	2·9155

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
62	P	$\left\{ \begin{matrix} 6 \\ 13 \end{matrix} \begin{matrix} 0 \\ 13 \end{matrix} \right.$	6'9'13	33° 41'	39° 45'	24° 46'	34° 41'	20° 47'	32° 09'	0'4615	0'6923	0'8321
		$\left\{ \begin{matrix} 2 \\ 3 \end{matrix} \begin{matrix} 1 \\ 3 \end{matrix} \right.$	6'13'9	24 46'	57 51'	33 41'	55 18'	"	50 14'	0'6667	1'4444	1'5908
		$\left\{ \begin{matrix} 3 \\ 2 \end{matrix} \begin{matrix} 1 \\ 3 \end{matrix} \right.$	9'13'6	34 41'	69 13'	56 18'	65 13'	32 09'	"	1'5000	2'1667	2'6352
63	X	$\left\{ \begin{matrix} 3 \\ 5 \end{matrix} \begin{matrix} 4 \\ 5 \end{matrix} \right.$	345	36 52	45 00	30 58	38 39'	25 06	34 27	0'6000	0'8000	1'0000
		$\left\{ \begin{matrix} 5 \\ 4 \end{matrix} \begin{matrix} 5 \\ 4 \end{matrix} \right.$	354	30 58	55 33	36 52	51 20'	"	45 00	0'7500	1'2500	1'4577
		$\left\{ \begin{matrix} 4 \\ 3 \end{matrix} \begin{matrix} 5 \\ 3 \end{matrix} \right.$	453	38 39'	64 54	53 08	59 02	34 27	"	1'3333	1'6667	2'1344
64	V	$\left\{ \begin{matrix} 7 \\ 10 \end{matrix} \begin{matrix} 4 \\ 13 \end{matrix} \right.$	7'8'10	41 11	46 45	34 59'	38 39'	28 39'	33 14'	0'7000	0'8000	1'0630
		$\left\{ \begin{matrix} 7 \\ 8 \end{matrix} \begin{matrix} 4 \\ 11 \end{matrix} \right.$	7'10'8	34 59'	56 45'	41 11	51 20'	"	43 15	0'8750	1'2500	1'5258
		$\left\{ \begin{matrix} 8 \\ 7 \end{matrix} \begin{matrix} 10 \\ 7 \end{matrix} \right.$	8'10'7	38 39'	61 20'	48 49	55 00'	33 14'	"	1'1429	1'4286	1'8294
65	W	$\left\{ \begin{matrix} 5 \\ 10 \end{matrix} \begin{matrix} 11 \\ 14 \end{matrix} \right.$	10'11'14	42 16'	46 43	35 32	38 09'	29 19	32 35'	0'7143	0'7857	1'0619
		$\left\{ \begin{matrix} 10 \\ 11 \end{matrix} \begin{matrix} 14 \\ 11 \end{matrix} \right.$	10'14'11	35 32'	57 24'	42 16'	51 50'	"	43 17	0'9091	1'2727	1'5640
		$\left\{ \begin{matrix} 10 \\ 16 \end{matrix} \begin{matrix} 11 \\ 13 \end{matrix} \right.$	11'14'10	38 09'	60 41'	47 43'	54 27'	32 35'	"	1'1000	1'4000	1'7805
66	U	$\left\{ \begin{matrix} 2 \\ 11 \end{matrix} \begin{matrix} 5 \\ 11 \end{matrix} \right.$	2'5'11	21 48	26 05	10 18'	24 26'	9 24	24 05'	0'1818	0'4545	0'4896
		$\left\{ \begin{matrix} 2 \\ 3 \end{matrix} \begin{matrix} 1 \\ 4 \end{matrix} \right.$	2'11'5	10 18'	65 54'	21 48	65 33'	"	63 55	0'4000	2'2000	2'2360
		$\left\{ \begin{matrix} 5 \\ 2 \end{matrix} \begin{matrix} 11 \\ 11 \end{matrix} \right.$	5'11'2	24 26'	80 36	68 12	79 41'	24 05'	"	2'5000	5'5000	6'0416
67	Q	$\left\{ \begin{matrix} 3 \\ 13 \end{matrix} \begin{matrix} 7 \\ 13 \end{matrix} \right.$	3'7'13	23 12	30 22	12 59'	28 18	11 29	27 41	0'2308	0'5385	0'5858
		$\left\{ \begin{matrix} 3 \\ 7 \end{matrix} \begin{matrix} 13 \\ 13 \end{matrix} \right.$	3'13'7	12 59'	62 19	23 12	61 42	"	59 38	0'4286	1'8572	1'9059
		$\left\{ \begin{matrix} 7 \\ 3 \end{matrix} \begin{matrix} 13 \\ 3 \end{matrix} \right.$	7'13'3	28 18	78 31	66 48	77 00'	27 41	"	2'3333	4'3333	4'9216

Pyrochlor.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	001 010	— 0° 00'	0° 00' 90 00	0° 00' "	0° 00' 90 00	0° 00' "	0° 00' 90 00	0 "	0 ∞	0 ∞
2	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	011 110	" 45 00	45 00 90 00	" 90 00	45 00 90 00	" 45 00	45 00 "	" 1'0000	1'0000 ∞	1'0000 ∞
3	m	$\left\{ \begin{matrix} 1 \\ 13 \end{matrix} \right.$	113 131	" 18 26	25 14' 72 27	18 26 45 00	18 26 71 34	17 33 "	17 33 64 45'	0'3333 1'0000	0'3333 3'0000	0'4714 3'1623
4	q	$\left\{ \begin{matrix} 1 \\ 12 \end{matrix} \right.$	112 121	45 00 26 34	35 16 65 54'	26 34 45 00	26 34 63 26	24 05' "	24 05' 54 44	0'5000 1'0000	0'5000 2'0000	0'7071 2'2360
5	p	I	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142

Pyrochroit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1.4002 \quad | \quad \lg c = 0.14619 \quad | \quad \lg a_0 = 0.09237 \quad | \quad \lg p_0 = 9.97010 \quad | \quad a_0 = 1.2370 \quad | \quad p_0 = 0.9355 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	p'	+1	11 $\bar{2}$ 1	30°00	58 16	38 57	54 28	25 10	47 26	0.8084	1.4002	1.6168

Pyromorphit.

Hexagonal. Pyramidal-hemiedrisch.

$$c = 1.275 \quad | \quad \lg c = 0.10551 \quad | \quad \lg a_0 = 0.13305 \quad | \quad \lg p_0 = 9.92942 \quad | \quad a_0 = 1.3585 \quad | \quad p_0 = 0.8500 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞ 0	10 $\bar{1}$ 0	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	11 $\bar{2}$ 0	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	x	10	10 $\bar{1}$ 1	0 00	40 22	0 00	40 22	0 00	40 22	o	0.8500	0.8500
5	z	20	20 $\bar{2}$ 1	"	59 32	"	59 32	"	59 32	"	1.7000	1.7000
6	v	40	40 $\bar{4}$ 1	"	73 36'	"	73 36'	"	73 36'	"	3.4000	3.4000
7	r	1	11 $\bar{2}$ 1	30 00	55 49	36 21'	51 53'	24 26	45 45'	0.7361	1.2750	1.4722

Pyrosmalith.

Hexagonal. Holoedrisch.

$$c = 1.838 \quad | \quad \lg c = 0.26435 \quad | \quad \lg a_0 = 9.97421 \quad | \quad \lg p_0 = 0.08826 \quad | \quad a_0 = 0.9423 \quad | \quad p_0 = 1.2253 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞ 0	10 $\bar{1}$ 0	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	x	$\frac{1}{2}$ 0	10 $\bar{1}$ 2	"	31 29'	"	31 29'	"	31 29'	"	0.6127	0.6127
4	z	10	10 $\bar{1}$ 1	"	50 47	"	50 47	"	50 47	"	1.2253	1.2253

Pyroxen-Gruppe Enstatit. Bronzit. Hypersthen.

Rhombisch.

$a = 1.0308$	$\lg a = 001322$	$\lg a_o = 024347$	$\lg p_o = 975653$	$a_o = 1.7517$	$p_o = 0.5709$
$c = 0.5885$	$\lg c = 976975$	$\lg b_o = 023025$	$\lg q_o = 976975$	$b_o = 1.6992$	$q_o = 0.5885$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	∞∞	010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	a	∞o	100	90°00	"	90°00	o°00	90°00	o°00	∞	o	"
4	η	4∞	410	75°33	"	"	90°00	75°33	14°27	3.8800	∞	"
5	ϱ	2 $\frac{5}{2}$ ∞	520	67°35	"	"	"	67°35	22°24	2.4250	"	"
6	n	2∞	210	62°44	"	"	"	62°44	27°16	1.9400	"	"
7	ζ	5 $\frac{5}{2}$ ∞	530	58°15	"	"	"	58°15	31°44	1.6167	"	"
8	α	3 $\frac{3}{2}$ ∞	320	55°30	"	"	"	55°30	34°30	1.4550	"	"
9	m	∞ $\frac{5}{2}$	110	44°07	"	"	"	44°07	35°52	0.9700	"	"
10	β	∞ $\frac{3}{2}$	230	32°53	"	"	"	32°53	57°06	0.6467	"	"
11	z	∞2	120	25°52	"	"	"	25°52	64°07	0.4850	"	"
12	δ	∞ $\frac{2}{2}$	250	21°12	"	"	"	21°12	68°47	0.3880	"	"
13	λ	∞3	130	17°55	"	"	"	17°55	72°05	0.3233	"	"
14	d	o2	021	o°00	49°39	o°00	49°39	o°00	49°39	o	1.1770	1.1770
15	f	o $\frac{2}{2}$	052	"	55°48	"	55°48	"	55°48	"	1.4712	1.4712
16	φ	$\frac{1}{2}$ o	106	90°00	5°26	5°26	o°00	5°26	o°00	0.0951	o	0.0951
17	h	$\frac{1}{4}$ o	104	"	8°07	8°07	"	8°07	"	0.1426	"	0.1426
18	γ	$\frac{2}{3}$ o	207	"	9°16	9°16	"	9°16	"	0.1631	"	0.1631
19	k	$\frac{1}{2}$ o	102	"	15°56	15°56	"	15°56	"	0.2854	"	0.2854
20	q	$\frac{3}{4}$ o	203	"	20°50	20°50	"	20°50	"	0.3806	"	0.3806
21	l	$\frac{2}{3}$ o	304	"	23°10	23°10	"	23°10	"	0.4281	"	0.4281
22	χ	$\frac{4}{5}$ o	405	"	24°33	24°33	"	24°33	"	0.4459	"	0.4459
23	t	10	101	"	29°43	29°43	"	29°43	"	0.5841	"	0.5841
24	g	20	201	"	48°47	48°47	"	48°47	"	1.1409	"	1.1409
25	v	30	301	"	59°43	59°43	"	59°43	"	1.7126	"	1.7126
26	r	2 $\frac{1}{2}$ o	522	67°35	57°04	54°59	30°28	55°53	18°39	1.4271	0.5885	1.5437
27	p	21	211	62°44	52°06	48°47	"	44°32	21°11	1.1417	"	1.2844
28	u	$\frac{3}{2}$ o	322	55°30	46°06	40°34	"	36°25	24°05	0.8563	"	1.0390
29	ϵ	$\frac{4}{3}$ o	433	52°17	43°53	37°16	"	33°16	25°05	0.7611	"	0.9621
30	o	1	111	44°07	39°21	29°43	"	26°12	27°04	0.5708	"	0.8199
31	σ	2 $\frac{1}{3}$ o	233	32°53	35°01	20°50	"	18°09	28°48	0.3806	"	0.7008
32	e	$\frac{1}{2}$ o	122	25°52	33°11	15°56	"	13°49	29°30	0.2854	"	0.6541
33	i	12	121	"	52°36	29°43	49°39	20°17	45°37	0.5708	1.1770	1.3081

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
34	x	2	221	44° 07'	58° 37'	48° 47'	49° 39'	36° 28'	37° 47'	1'1417	1'1770	1'6398
35	τ	$\frac{2}{3}$	223	"	28 39'	20 50'	21 25'	19 30'	20 08'	0'3806	0'3923	0'5466
36	ξ	$\frac{1}{2}$ 2	142	13 18	50 27'	15 56'	49 39'	10 28'	48 32'	0'2854	1'1770	1'2111
37	ψ	24	241	25 52'	69 05'	48 47'	66 59'	24 03'	57 11'	1'1417	2'3540	2'6162
38	π	23	231	32 53'	64 34'	"	60 28'	29 22'	49 19'	"	1'7655	2'1025
39	s	$\frac{2}{3}$ 2	263	17 55'	51 03'	20 50'	49 39'	13 50'	47 43'	0'3806	1'1770	1'2370
40	y	$\frac{3}{2}$ 2	342	36 02'	55 30'	40 34'	"	29 00'	41 48'	0'8563	"	1'4555

Pyroxen-Gruppe Akmit.

Monoklin.

a = 1'0998	lga = 004131	lga ₀ = 026229	lgp ₀ = 973771	a ₀ = 1'8293	p ₀ = 0'5467
c = 0'6012	lgc = 977902	lgb ₀ = 022098	lgq ₀ = 975996	b ₀ = 1'6633	q ₀ = 0'5754
$\mu = \left. \begin{matrix} \\ \end{matrix} \right\} 73^\circ 09$ 180 - β	lgh = $\left. \begin{matrix} \\ \end{matrix} \right\} 998094$ lg sin μ	lge = $\left. \begin{matrix} \\ \end{matrix} \right\} 946220$ lg cos μ	lg $\frac{p_0}{q_0}$ = 997775	h = 0'9571	e = 0'2899

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	b	∞∞	010	0° 00'	90° 00'	0° 00'	90° 00'	0° 00'	90° 00'	0	∞	∞
2	a	∞∞	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	χ	5∞	510	78 06'	"	"	90 00	78 06'	11 53'	4'7503	∞	"
4	f	$\frac{3}{2}$ ∞	310	70 40	"	"	"	70 40	19 20	2'8502	"	"
5	L	$\frac{7}{3}$ ∞	730	65 43	"	"	"	65 43	24 17	2'2168	"	"
6	m	∞	110	44 51	"	"	"	44 51	45 09	0'9500'	"	"
7	p	-10	101	90 00	15 01	15 01	0 00	15 01	0 00	0'2683	0	0'2683
8	H	$-\frac{3}{2}$ 0	302	"	28 59	28 59	"	28 59	"	0'5539	"	0'5539
9	s	-1	111	24 03	33 21'	15 01	31 01	12 57	30 08'	0'2683	0'6012	0'6584
10	λ	-3	331	38 02	66 24'	54 40	60 59'	34 22'	46 12'	1'4107'	1'8036	2'2898
11	O	-6	661	40 54	78 10	72 15	74 30'	39 51	47 43	3'1245	3'6072	4'7722
12	Ω	-8	881	41 34'	81 09'	76 48'	78 15	40 58'	47 39'	4'2670	4'8096	6'4296
13	Q	-16	161	4 15	74 33	15 01	74 30'	4 06	73 59	0'2683	3'6072	3'6172
14	K	-19	191	2 50'	79 32'	"	79 31'	2 47'	79 10	"	5'4107'	5'4174
15	S	-31	311	66 55	56 53'	54 40	31 01	50 24'	19 10	1'4107'	0'6012	1'5335
16	P	+26	261	21 50	75 34	55 19'	74 30'	21 07	64 01	1'4454	3'6072	3'8860

Pyroxen-Gruppe Diopsid.

Monoklin.

a = 1'0934	lg a = 003878	lg a _o = 026837	lg p _o = 973163	a _o = 1'8551	p _o = 0'5390'
c = 0'5894	lg c = 977041	lg b _o = 022959	lg q _o = 975358	b _o = 1'6966	q _o = 0'5670
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 74^{\circ}09$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 998317$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 943635$	$\lg \frac{p_o}{q_o} = 997805$	h = 0'9620	e = 0'2731

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
1	c	o	001	90°00	15°51	15°51	0°00	15°51	0°00	0'2839	o	0'2839
2	b	o∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	χ	5∞	510	78 07	"	"	90 00	78 07	11 53	4'7535	∞	"
5	f	3∞	310	70 41	"	"	"	70 41	19 19	2'8521	"	"
6	g	2∞	210	62 15	"	"	"	62 15	27 44	1'9014	"	"
7	m	∞	110	43 33	"	"	"	43 33	46 27	0'9507	"	"
8	ω	∞2	120	25 25	"	"	"	25 25	64 34	0'4753	"	"
9	i	∞3	130	17 35	"	"	"	17 35	72 25	0'3169	"	"
10	A	∞5	150	10 46	"	"	"	10 46	79 14	0'1901	"	"
11	A	∞7	170	7 44	"	"	"	7 44	82 16	0'1358	"	"
12	X	0 $\frac{1}{5}$	015	67 27	17 05	15 51	6 43	15 45	6 28	0'2839	0'1178	0'3074
13	e	01	011	25 43	33 11	"	30 31	13 44	29 33	"	0'5894	0'6542
14	z	02	021	13 32	50 29	"	49 41	10 14	48 35	"	1'1785	1'2125
15	π	04	041	6 52	67 10	"	67 01	6 19	66 12	"	2'3576	2'3747
16	y	+10	101	90 00	40 10	40 10	0 00	40 10	0 00	0'8442	o	0'8442
17	A	+20	201	"	54 33	54 33	"	54 33	"	1'4046	"	1'4046
18	F	+30	301	"	63 01	63 01	"	63 01	"	1'9649	"	1'9649
19	I	+70	702	"	65 59	65 59	"	65 59	"	2'2450	"	2'2450
20	M	+40	401	"	68 26	68 26	"	68 26	"	2'5253	"	2'5253
21	ψ	+50	501	"	72 02	72 02	"	72 02	"	3'0856	"	3'0856
22	q	-30	301	90 00	54 24	54 24	"	54 24	"	1'3972	"	1'3972
23	G	-20	201	"	39 55	39 55	"	39 55	"	0'8368	"	0'8368
24	H	-30	302	"	29 06	29 06	"	29 06	"	0'5565	"	0'5565
25	B	-40	403	"	24 51	24 51	"	24 51	"	0'4632	"	0'4632
26	p	-10	101	"	15 27	15 27	"	15 27	"	0'2764	"	0'2764
27	n	-50	102	90 00	0 13	0 13	"	0 13	"	0'0037	"	0'0037
28	u	+1	111	55 04	45 50	40 10	30 31	36 01	24 15	0'8442	0'5894	1'0296
29	Γ	+31	311	73 18	64 00	63 01	"	59 25	14 58	1'9647	"	2'0512
30	κ	+71	711	82 01	76 45	76 37	"	74 34	7 46	4'2060	"	4'2471
31	V	-31	311	67 07	56 35	54 24	"	50 16	18 56	1'3970	"	1'5163
32	ι	-21	211	54 50	45 40	39 55	"	35 47	24 19	0'8367	"	1'0234
33	s	-1	111	25 07	33 04	15 27	"	13 23	29 36	0'2764	"	0'6510

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
34	x	-2	221	35° 22'	55° 19'	39° 55'	49° 41'	28° 25'	42° 07'	0·8367	1·1788	1·4455
35	d	+1 $\frac{1}{3}$	131	25 31	62 58	40 10	60 30	22 34	53 29	0·8442	1·7682	1·9594
36	φ	+1 $\frac{1}{2}$	252	29 48	59 30	"	55 50	25 22	48 23	"	1·4735	1·6982
37	μ	+12	121	35 36	55 24	"	49 41	28 38	42 00	"	1·1788	1·4499
38	K	-1 $\frac{1}{4}$	414	61 56	17 23	15 27	8 23	15 17	8 05	0·2764	0·1473	0·3132
39	Θ	-1 $\frac{1}{3}$	313	54 36	18 44	"	11 07	15 10	10 43	"	0·1964	0·3391
40	ε	-12	121	13 12	50 27	"	49 41	10 08	48 39	"	1·1788	1·2108
41	L	-13	131	8 53	60 48	"	60 30	7 45	59 36	"	1·7682	1·7897
42	γ	-15	151	5 21	71 20	"	71 15	5 04	70 36	"	2·9470	2·9599
43	S	+1 $\frac{1}{5}$	119	79 17	19 24	19 05	3 45	19 03	3 32	0·3461	0·0655	0·3523
44	T	+1 $\frac{1}{7}$	117	76 58	20 29	20 00	4 49	19 56	4 31	0·3639	0·0842	0·3735
45	σ	+1 $\frac{1}{2}$	112	62 25	32 28	29 25	16 25	28 25	14 24	0·5640	0·2947	0·6364
46	v	+2	221	49 59	61 23	54 33	49 41	42 15	34 22	1·4045	1·1788	1·8336
47	r	+2 $\frac{1}{2}$	552	48 49	65 55	59 18	55 50	43 24	36 57	1·6846	1·4735	2·2381
48	w	+3	331	48 01	69 16	63 01	60 30	44 03	38 44	1·9647	1·7682	2·6432
49	h	+4	441	46 58	73 51	68 24	67 01	44 36	40 57	2·5251	2·3576	3·4547
50	δ	+5	551	46 19	76 48	72 02	71 15	44 45	42 15	3·0853	2·9470	4·2666
51	λ	-3	331	38 19	66 04	50 24	60 30	34 31	45 49	1·3970	1·7682	2·2535
52	o	-2	221	41 47	57 41	46 29	49 41	34 16	39 04	1·0533	1·1788	1·5808
53	β	-2 $\frac{1}{2}$	885	33 00	48 21	31 29	43 19	24 01	38 48	0·6126	0·9430	1·1245
54	ϱ	-3 $\frac{1}{2}$	332	32 11	46 15	29 06	41 29	22 38	37 41	0·5565	0·8841	1·0447
55	v	-2 $\frac{2}{3}$	223	10 16	26 41	5 07	26 19	4 35	26 14	0·0896	0·4947	0·5027
56	ξ	-3 $\frac{1}{3}$	335	8 24	19 40	2 58	19 28	2 49	19 27	0·0523	0·3536	0·3575
57	τ	-1 $\frac{1}{2}$	112	0 44	16 25	0 13	16 25	0 12	16 25	0·0037	0·2947	0·2947
58	Φ	-1 $\frac{1}{3}$	113	26 18	12 21	5 32	11 07	5 26	11 04	0·0971	0·1964	0·2192
59	O	+1 $\frac{1}{2}$	152	20 57	57 38	29 26	55 50	17 34	52 04	0·5640	1·4735	1·5777
60	N	+1 $\frac{1}{2}$	132	32 32	46 22	29 25	41 29	22 54	37 36	"	0·8841	1·0484
61	R	-1 $\frac{1}{2}$	132	0 14	41 29	0 13	"	0 10	41 29	0·0037	"	0·8841
62	ϑ	-1 $\frac{1}{2}$	142	0 11	49 41	"	49 41	0 08	49 41	"	1·1788	1·1788
63	U	-1 $\frac{1}{2}$	152	0 08	55 50	"	55 50	0 07	55 50	"	1·4735	1·4735
64	l	+24	241	30 47	69 58	54 33	67 01	28 44	35 49	1·4045	2·3576	2·7442
65	ζ	-4 $\frac{1}{3}$	483	16 25	58 36	24 51	57 32	13 58	54 58	0·4632	1·5718	1·6386
66	Ξ	-1 $\frac{1}{10}$	1·2·10	62 39	14 23	12 50	6 43	12 45	6 33	0·2278	0·1179	0·2566
67	η	+42	421	64 58	70 15	68 24	49 41	58 31	23 28	2·5251	1·1788	2·7867
68	P	+1 $\frac{1}{3}$	134	43 48	31 29	22 58	23 51	21 12	22 09	0·4239	0·4420	0·6125
69	Q	+1 $\frac{1}{6}$	136	52 00	25 35	20 40	16 25	19 53	15 25	0·3772	0·2947	0·4787
70	t	+35	351	33 41	74 14	63 01	71 15	32 16	53 12	1·9647	2·9470	3·5419
71	a	+3 $\frac{1}{2}$	312	75 19	49 17	48 21	16 25	47 10	11 05	1·1243	0·2947	1·1623
72	k	-3 $\frac{1}{2}$	312	62 06	32 12	29 06	"	28 06	14 26	0·5565	"	0·6298
73	a	-4 $\frac{1}{5}$	465	27 45	38 38	20 25	35 16	16 54	33 32	0·3722	0·7073	0·7992
74	b	-2 $\frac{1}{5}$	235	34 29	23 28	14 09	19 28	13 22	18 55	0·2521	0·3536	0·4343
75	c	-2 $\frac{1}{4}$	354	10 29	36 50	7 45	36 23	6 16	36 07	0·1363	0·7367	0·7492
76	b	-6 $\frac{1}{7}$	687	16 15	35 03	11 06	38 58	9 15	33 28	0·1963	0·6736	0·7017
77	e	-7 $\frac{1}{7}$	347	7 24	18 45	2 30	18 37	2 22	18 36	0·0437	0·3368	0·3396
78	g	+7 $\frac{1}{2}$	732	4 15	42 22	12 39	41 29	9 33	40 47	0·2245	0·8841	0·9121

Pyroxen-Gruppe Pektolith.

Monoklin.

$a = 1.1140$	$\lg a = 004689$	$\lg a_o = 005284$	$\lg p_o = 994716$	$a_o = 1.1294$	$p_o = 0.8854$
$c = 0.9864$	$\lg c = 999405$	$\lg b_o = 000595$	$\lg q_o = 999217$	$b_o = 1.0138$	$q_o = 0.9821$
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 84^\circ 40$ $180-\beta$	$\lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 999812$ $\lg \sin \mu$	$\lg e = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 896825$ $\lg \cos \mu$	$\lg \frac{p_o}{q_o} = 995499$	$h = 0.9957$	$e = 0.0929$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	5°20	5°20	0°00	5°20	0°00	0.0933	o	0.0933
2	a	∞o	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	k	$\frac{5}{3}\infty$	54o	48 25	"	"	90 00	48 25	41 35	1.1270	∞	"
4	l	$\frac{2}{3}\infty$	34o	34 04	"	"	"	34 04	55 56	0.6761	"	"
5	ω	∞4	14o	12 42	"	"	"	12 42	77 18	0.2254	"	"
6	v	+10	101	90 00	44 30	44 30	o 00	44 30	o 00	0.9826	o	0.9826
7	α	-1/2o	102	90 00	19 21	19 21	"	19 21	"	0.3512	"	0.3512
8	t	-10	101	"	38 31	38 31	"	38 31	"	0.7959	"	0.7959
9	r	-3o	301	"	68 46	68 46	"	68 46	"	2.5746	"	2.5746
10	n	-3/21	322	51 31	57 45	51 08	44 36	41 27	31 45	1.2406	0.9864	1.5849

Pyroxen-Gruppe Wollastonit.

Monoklin.

$a = 1.0531$	$\lg a = 002247$	$\lg a_o = 003677$	$\lg p_o = 996323$	$a_o = 1.0884$	$p_o = 0.9188$
$c = 0.9676$	$\lg c = 998570$	$\lg b_o = 001430$	$\lg q_o = 998370$	$b_o = 1.0335$	$q_o = 0.9632$
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 84^\circ 30$ $180-\beta$	$\lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 999800$ $\lg \sin \mu$	$\lg e = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 898157$ $\lg \cos \mu$	$\lg \frac{p_o}{q_o} = 997953$	$h = 0.9954$	$e = 0.0958$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	u	o	001	90°00	5°30	5°30	0°00	5°30	0°00	0.0963	o	0.0963
2	c	∞o	100	"	90 00	90 00	90 00	"	"	∞	"	∞
3	d	$\frac{3}{2}\infty$	83o	68 32	"	"	"	68 32	21 27	2.5439	∞	"
4	z	$\frac{3}{2}\infty$	32o	55 03	"	"	"	55 03	34 57	1.4310	"	"
5	k	$\frac{3}{2}\infty$	54o	50 01	"	"	"	50 01	39 59	1.1924	"	"
6	e	$\frac{3}{2}\infty$	11o	43 39	"	"	"	43 39	46 21	0.9539	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
7	l	$\infty \frac{4}{3}$	340	35° 35'	90° 00'	90° 00'	90° 00'	35° 35'	54° 25'	0'7154'	∞	∞
8	x	$\infty 2$	120	25 30	"	"	"	25 30	64 30	0'4770	"	"
9	g	01	011	5 41	44 12	5 30	44 03'	3 57'	43 55'	0'0963	0'9676	0'9724
10	v	$+\frac{1}{10}$	101	90 00	45 33	45 33	0 00	45 33	0 00	1'0193	0	1'0193
11	w	$+\frac{1}{10}$	102	"	29 09	29 09	"	29 09	"	0'5577	"	0'5577
12	q	$-\frac{1}{3}0$	103	90 00	11 56	11 56	"	11 56	"	0'2114	"	0'2114
13	a	$-\frac{1}{2}0$	102	"	20 03'	20 03'	"	20 03'	"	0'3652	"	0'3652
14	α	$-\frac{3}{3}0$	305	"	24 35	24 35	"	24 35	"	0'4575	"	0'4575
15	t	-10	101	"	39 35	39 35	"	39 35	"	0'8267	"	0'8267
16	s	-20	201	"	60 15	60 15	"	60 15	"	1'7498	"	1'7498
17	r	-30	301	"	69 29	69 29	"	69 29	"	2'6727	"	2'6727
18	i	$-\frac{1}{2}0$	11'0'2	"	78 23'	78 23'	"	78 23'	"	4'9804	"	4'9804
19	f	-1	111	40 31	51 50'	39 35	44 03'	30 43	36 43	0'8268	0'9676	1'2727
20	h	$+\frac{1}{2}1$	122	29 57'	48 09'	29 09	"	21 50'	40 12	0'5577'	"	1'1169
21	m	$-\frac{1}{2}1$	122	20 41	45 58	20 04	"	14 42'	42 16	0'3653	"	1'0342
22	n	$-\frac{3}{2}1$	322	53 05'	58 10'	52 11	"	42 48	30 41	1'2883'	"	1'6112

Pyroxen-Gruppe Babingtonit.

Triklin.

$p_0 = 1'6350$	$\lambda = 87^\circ 28$	$a = 1'1167$	$\alpha = 93^\circ 48$	$x_0 = 0'3802$	$d = 0'3827$
$q_0 = 1'6921$	$\mu = 67^\circ 48$	$b = 1$	$\beta = 112^\circ 22$	$y_0 = 0'0442$	$\delta = 83^\circ 22$
$r_0 = 1$	$\nu = 92^\circ 36$	$c = 1'8257$	$\gamma = 86^\circ 09$	$h = 0'9239$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
1	a	0	001	83° 22'	22° 30'	22° 22'	2° 44'	22° 20'	2° 32'	0'4115	0'0478	0'4143
2	c	$\infty 0$	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	b	$\infty 0$	100	92 36	"	90 00	90 00	87 24	2 36	22'022	"	"
4	e	∞	110	45 16'	"	"	90 00	45 16'	44 43'	1'0096	"	"
5	s	$\infty \infty$	110	137 53'	"	"	90 00	42 06'	47 53'	0'9247	"	"
6	δ	01	011	12 21	61 32	22 22	28 61'	10 56'	60 05	0'4115	1'8790	1'9235
7	q	10	101	90 52	65 21'	65 21	1 53'	65 20'	0 47'	2'1794	0'0330	2'1796
8	r	$\frac{1}{3}0$	102	79 27	25 40	25 17	5 02	25 12	4 33	0'4723	0'0880	0'4805
9	l	$\frac{1}{3}0$	203	82 28	37 44	37 29'	5 47'	37 21	4 36	0'7671	0'1014	0'7738

Pyroxen-Gruppe

Rhodinit.

Triklin.

$p_0 = 1.5843$	$\lambda = 86^\circ 29$	$a = 1.1550$	$\alpha = 94^\circ 42$	$x_0 = 0.3650$	$d = 0.3701$
$q_0 = 1.7089$	$\mu = 68^\circ 46$	$b = 1$	$\beta = 111^\circ 27$	$y_0 = 0.0614$	$\delta = 80^\circ 26$
$r_0 = 1$	$\nu = 92^\circ 21$	$c = 1.8317$	$\gamma = 86^\circ 06$	$h = 0.9290$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = $tg \varrho$
1	a	o	001	80° 27	21° 43'	21° 27	3° 47	21° 24'	3° 31	0.3929	0.0661	0.3984
2	c	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	b	$\infty 0$	100	92 21	"	90 00	90 00	87 39	2 21	24.367	"	"
4	d	$\infty 3$	130	17 22	"	"	90 00	17 22	72 38	0.3127	"	"
5	t	$\infty 2$	120	25 16'	"	"	"	25 16'	64 43'	0.4721	"	"
6	o	∞	110	43 55	"	"	"	43 55	46 05	0.9629	"	"
7	f	$\infty 1$	210	120 08'	"	"	90 00	59 51'	30 08'	1.7220	"	"
8	g	$\infty 2$	320	127 15'	"	"	"	52 44'	37 15'	1.3145	"	"
9	s	$\infty 1$	110	138 15	"	"	"	41 45	48 15	0.8924	"	"
10	e	$\infty 2$	120	155 33'	"	"	"	24 26'	65 33'	0.4545	"	"
11	x	01	011	11 39	62 48	21 27	62 18'	10 21	60 35	0.3929	1.9056	1.9457
12	π	$0 \frac{1}{2}$	012	21 44	46 42	"	44 35'	15 38	42 32	"	0.9858	1.0612
13	m	$0 \frac{1}{2}$	012	155 17	43 13	"	40 29	16 38'	38 28	"	0.8536	0.9397
14	k	01	011	167 30'	61 10	"	60 35	10 55'	58 47'	"	1.7734	1.8164
15	i	02	021	173 47'	74 37	"	74 31'	5 59	73 26	"	3.6130	3.6343
16	q	10	101	90 06'	64 30	64 30	0 13	64 30	0 05	2.0968	0.0038	2.0969
17	p	$\frac{1}{2} 0$	102	88 34	51 14	51 13'	1 47	51. 12'	1 07	1.2449	0.0311	1.2453
18	u	$1 \frac{1}{3} 0$	103	62 57'	11 07'	9 56	5 06'	9 53'	5 02	0.1751	0.0894	0.1966
19	r	$1 \frac{1}{3} 0$	102	77 35	25 10'	24 39'	5 46'	24 33	5 15	0.9160	0.1011	0.4701
20	l	$\frac{2}{3} 0$	203	81 22'	36 55'	36 37	6 26	36 26'	5 10	0.7430	0.1127	0.7516
21	n	10	101	84 04'	52 49	52 40	7 44'	52 25	4 43	1.2813	0.1360	1.3181
22	μ	1	111	48 48	70 15'	64 30	61 25	45 05'	38 19	2.0968	1.8356	2.7868
23	γ	11	111	131 19	70 17'	"	61 31	45 00	38 26	"	1.8433	2.7919
24	φ	1	111	142 25	65 03	52 40	59 35	33 34'	45 56	1.2813	1.7036	2.1496
25	θ	$\frac{1}{3} \frac{1}{3}$	113	55 41	49 19	43 51'	33 15'	38 47	25 18'	0.9609	0.6559	1.1635
26	ϱ	$\frac{1}{3} \frac{1}{3}$	112	52 37'	57 27	51 13'	43 33'	42 03'	30 46'	1.2449	0.9508	1.5665
27	δ	$1 \frac{1}{3} \frac{1}{3}$	434	133 29'	61 02'	52 40	51 12	39 24'	37 01'	1.3111	1.2437	1.8071
28	w	$1 \frac{1}{3} \frac{1}{3}$	153	3 10'	72 26'	9 56	72 25	3 01'	72 10	0.1751	3.1553	3.1601

Quarz.

Hexagonal. Trapezoedrisch-tetartoedrisch.

$c = 1.9051$	$lg c = 0.27991$	$lga_0 = 995865$	$lg p_0 = 0.10382$	$a_0 = 0.9092$	$p_0 = 1.2701$	(G_1)
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No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d =tgε
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	A:	$\frac{11}{8}\infty$	11.8.19.0	24 47'	"	"	"	24 47'	65 12'	0.4619	"	"
5	B:	$\frac{2}{3}\infty$	3250	23 25	"	"	"	23 25	66 35	0.4330	"	"
6	C:	$\frac{4}{3}\infty$	8.5.13.0	22 24'	"	"	"	22 24'	67 35'	0.4123	"	"
7	D:	$\frac{7}{4}\infty$	7.4.11.0	21 03	"	"	"	21 03	68 57	0.3849	"	"
8	E:	2∞	2130	19 06'	"	"	"	19 06'	70 53'	0.3464	"	"
9	F:	$\frac{5}{2}\infty$	5270	16 06	"	"	"	16 06	73 54	0.2887	"	"
10	G:	3∞	3140	13 54	"	"	"	13 54	76 06	0.2474	"	"
11	H:	5∞	5160	8 57	"	"	"	8 57	81 03	0.1575	"	"
12	M	$+\frac{1}{3}0$	1019	0 00	8 02	0 00	8 02	0 00	8 02	o	0.1411	0.1411
13	ν	$-\frac{2}{3}0$	2.0.2.13	"	11 03'	"	11 03'	"	11 03'	"	0.1954	0.1954
14	ξ	$-\frac{1}{3}0$	1013	"	22 56'	"	22 56'	"	22 56'	"	0.4233	0.4233
15	pπ	$+\frac{1}{2}0$	1012	"	32 25	"	32 25	"	32 25	"	0.6350	0.6350
16	rρ	$+\frac{1}{10}0$	1011	"	51 47	"	51 47	"	51 47	"	1.2701	1.2701
17	q	$+\frac{11}{10}0$	11.0.11.10	"	54 24'	"	54 24'	"	54 24'	"	1.3970	1.3970
18	n	$+\frac{9}{8}0$	9098	"	55 01	"	55 01	"	55 01	"	1.4288	1.4288
19	mμ	$+\frac{5}{8}0$	6065	"	56 44	"	56 44	"	56 44	"	1.5241	1.5241
20	lλ	$+\frac{5}{4}0$	5054	"	57 47'	"	57 47'	"	57 47'	"	1.5876	1.5876
21	kτ	$+\frac{4}{3}0$	4043	"	59 26	"	59 26	"	59 26	"	1.6934	1.6934
22	G	$+\frac{13}{9}0$	13.0.13.9	"	61 24'	"	61 24'	"	61 24'	"	1.8345	1.8345
23	t	$+\frac{7}{5}0$	7075	"	60 39	"	60 39	"	60 39	"	1.7781	1.7781
24	jσ	$+\frac{3}{2}0$	3032	"	62 18	"	62 18	"	62 18	"	1.9051	1.9051
25	i	$+\frac{3}{5}0$	5053	"	64 43	"	64 43	"	64 43	"	2.1168	2.1168
26	F	$+\frac{7}{4}0$	7074	"	65 46'	"	65 46'	"	65 46'	"	2.2226	2.2226
27	E	$+\frac{17}{7}0$	13.0.13.7	"	67 01'	"	67 01'	"	67 01'	"	2.3586	2.3586
28	hκ	$+\frac{20}{16}0$	2021	"	68 30'	"	68 30'	"	68 30'	"	2.5401	2.5401
29	χ	$-\frac{13}{6}0$	13.0.13.6	"	70 01'	"	70 01'	"	70 01'	"	2.7518	2.7518
30	ψ	$-\frac{7}{3}0$	7073	"	71 21	"	71 21	"	71 21	"	2.9635	2.9635
31	ω	$-\frac{5}{2}0$	5052	"	72 31	"	72 31	"	72 31	"	3.1751	3.1751
32	ι	$-\frac{14}{4}0$	11.0.11.4	"	74 01'	"	74 01'	"	74 01'	"	3.4926	3.4926
33	gθ	$+\frac{30}{17}0$	3031	"	75 17'	"	75 17'	"	75 17'	"	3.8102	3.8102
34	Γ	$-\frac{23}{7}0$	23.0.23.7	"	76 31'	"	76 31'	"	76 31'	"	4.1730	4.1730
35	η	$-\frac{7}{2}0$	7072	"	77 19'	"	77 19'	"	77 19'	"	4.4452	4.4452

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
36	D	+ $\frac{1}{4}$ 50	15° 0' 15.4	0° 00	78° 08'	0° 00	78° 08'	0° 00	78° 08'	0	4'7627	4'7627
37	f ζ	\pm 40	4041	"	78 52	"	78 52	"	78 52	"	5'0802	5'0802
38	A	- $\frac{1}{3}$ 40	14° 0' 14.3	"	80 25'	"	80 25'	"	80 25'	"	5'9270	5'9270
39	e ε	\pm 50	5051	"	81 03	"	81 03	"	81 03	"	6'3503	6'3503
40	d	+ $\frac{1}{2}$ 50	11° 0' 11.2	"	81 51	"	81 51	"	81 51	"	6'9852	6'9852
41	c δ	\pm 60	6061	"	82 31'	"	82 31'	"	82 31'	"	7'6203	7'6203
42	γ	- $\frac{1}{2}$ 50	13° 0' 13.2	"	83 05'	"	83 05'	"	83 05'	"	8.2552	8.2552
43	C β	\pm 70	7071	"	83 35	"	83 35	"	83 35	"	8'8904	8'8904
44	B α	\pm 80	8081	"	84 23	"	84 23	"	84 23	"	10'160	10'160
45	A	+ 90	9091	"	85 00	"	85 00	"	85 00	"	11'430	11'430
46	T	+ 10° 0	10° 0' 10.1	"	85 30	"	85 30	"	85 30	"	12'701	12'701
47	Ψ	- 11° 0	11° 0' 11.1	"	85 54'	"	85 54'	"	85 54'	"	13'970	13'970
48	U	+ 12° 0	12° 0' 12.1	"	86 15	"	86 15	"	86 15	"	15'241	15'241
49	V	+ 13° 0	13° 0' 13.1	"	86 32	"	86 32	"	86 32	"	16'510	16'510
50	W	+ 15° 0	15° 0' 15.1	"	86 59'	"	86 59'	"	86 59'	"	19'051	19'051
51	X	+ 16° 0	16° 0' 16.1	"	87 15	"	87 15	"	87 15	"	20'794	20'794
52	Ω	- 17° 0	17° 0' 17.1	"	87 21	"	87 21	"	87 21	"	21'591	21'591
53	Y	+ 18° 0	18° 0' 18.1	"	87 29'	"	87 29'	"	87 29'	"	22'860	22'860
54	Z	+ 28° 0	28° 0' 28.1	"	88 23'	"	88 23'	"	88 23'	"	35'562	35'562
55	μ :	$\frac{1}{3}$	1123	30 00	36 15	20 08	32 25	17 12	30 48	0'3666	0'6350	0'7333
56	ξ :	$\frac{1}{2}$	1122	"	47 43'	28 48'	43 36'	21 43	39 51	0'5499	0'9525	1'0999
57	σ :	$\frac{2}{3}$	2243	"	55 42'	36 15	51 47	24 24	45 41	0'7333	1'2701	1'4664
58	s	1	1121	"	65 33	47 43'	62 18	27 04'	52 02	1'0999	1'9051	2'1998
59	α R	\pm $\frac{2}{3}$ $\frac{1}{3}$	2133	19 06'	48 14'	20 08	46 37'	14 08	44 49	0'3666	1'0584	1'1201
60	b	+ $\frac{8}{11}$ $\frac{3}{11}$	8'3'11'11	15 17'	48 40'	16 42'	47 38'	11 25'	46 25	0'3000	1'0968	1'1371
61	Q	- $\frac{3}{4}$ $\frac{1}{4}$	3144	13 54	48 51'	15 22'	48 01'	10 25'	46 58'	0'2750	1'1113	1'1448
62	P	- $\frac{2}{9}$ $\frac{7}{9}$	7299	12 13	49 07'	13 44'	48 28'	9 12'	47 38'	0'2444	1'1289	1'1551
63	S	- $\frac{0}{10}$ $\frac{1}{10}$	9'1'10'10	5 12'	50 29'	6 16'	50 21'	4 01'	50 10'	0'1100	1'2065	1'2116
64	m M	\pm $\frac{1}{12}$ $\frac{1}{12}$	11'1'12'12	4 18'	50 40'	5 14'	50 35'	3 20'	50 28'	0'0917	1'2171	1'2206
65	b	- $\frac{1}{5}$	9'1'10'9	5 12'	53 23'	6 58'	53 17'	4 11'	53 04'	0'1222	1'3406	1'3461
66	e	- $1\frac{1}{7}$	7187	6 35	53 52'	8 56'	53 41'	5 19'	53 21'	0'1571	1'3608	1'3698
67	f	- $1\frac{1}{6}$	6176	7 35'	54 13'	10 23'	53 59'	6 09'	53 32'	0'1833	1'3759	1'3880
68	g	- $1\frac{1}{5}$	5165	8 57'	54 44'	12 24'	54 24'	7 18'	53 45'	0'2200	1'3970	1'4142
69	h	- $1\frac{1}{4}$	4154	10 53'	55 30'	15 57'	55 00'	8 57'	54 01'	0'2750	1'4288	1'4550
70	i	- $1\frac{1}{3}$	3143	13 54	56 46'	20 08'	55 59'	11 35'	54 17'	0'3666	1'4817	1'5264
71	N t	+ $1\frac{1}{2}$	2132	19 06'	59 14'	28 48'	57 47'	16 20	"	0'5499	1'5875	1'6801
72	L	+ $1\frac{2}{3}$	3253	23 25	61 33	36 15	59 26	20 27	53 47	0'7333	1'6934	1'8453
73	K	+ $1\frac{3}{4}$	4374	25 17	62 37'	39 31	60 12	22 17'	53 25	0'8249	1'7463	1'9313
74	f	- $1\frac{4}{5}$	5495	26 20	63 15	41 20'	60 38'	23 20	53 10	0'8799	1'7781	1'9839
75	J	+ $1\frac{5}{6}$	6'5'11'6	27 00	63 39	42 30'	60 56	24 00	52 59	0'9166	1'7992	2'0192
76	\mathfrak{R}	- $\frac{1}{2}$ 1	12'11'23'11	28 33'	66 30'	47 43'	63 40	26 00'	53 39'	1'0999	2'0205	2'3005
77	\mathfrak{D}	- $\frac{7}{2}$ 1	7'5'12'5	24 30	69 20'	"	67 29'	22 50	55 22	"	2'4131	2'6519
78	f	- $\frac{3}{2}$ 1	3252	23 25	70 08	"	68 30'	21 56'	59 39'	"	2'5459	2'7680
79	H	+ $\frac{8}{5}$ 1	8'5'13'5	22 24'	70 53	"	69 27'	21 06'	60 52	"	2'6671	2'8849
80	G \mathfrak{B}	\pm $\frac{3}{5}$ 1	5383	21 47'	71 21	"	70 01'	20 35'	61 37'	"	2'7518	2'9634

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x:y)	y	d =tge
81	F: f	± 21	21 $\bar{3}$ 1	19° 06'	73° 25'	47° 43'	72° 31'	18° 17'	64° 55'	1'0999	3'1751	3'3602
82	Q:	$-\frac{1}{2}1$	13'6'19'6	17 59'	74 19	"	73 33	17 18	66 18	"	3'3868	3'5609
83	R:	$-\frac{7}{3}1$	7'3'10'3	17 00	75 07	"	74 28	16 24'	67 33'	"	3'5985	3'7628
84	G:	$-\frac{8}{3}1$	8'3'11'3	15 17'	76 31	"	76 02	14 52	69 43	"	4'0218	4'1695
85	u: u'	± 31	31 $\bar{4}$ 1	13 54	77 41	"	77 19'	13 34'	71 30'	"	4'4452	4'5792
86	T:	$-\frac{7}{3}1$	7'29'2	12 13	79 06'	"	78 52	11 59'	73 41	"	5'0802	5'1979
87	y: y'	± 41	41 $\bar{5}$ 1	10 53'	80 15	"	80 04'	10 44	75 25	"	5'7152	5'8201
88	x: x'	± 51	51 $\bar{6}$ 1	8 57	81 57	"	81 51	8 51'	77 59'	"	6'9852	7'0729
89	v:	$+71$	71 $\bar{8}$ 1	6 35	84 03	"	84 00'	6 33	81 08	"	9'5254	9'5885
90	X:	$-12'1$	12'1'13'1	3 58	86 24	"	86 24	3 57'	84 39	"	15'875	15'913
91	B:	$-21'1$	21'1'22'1	2 18'	87 54'	"	87 54	2 18'	86 52'	"	27'306	27'328
92	M:	$+\frac{2}{3}\frac{1}{6}$	41 $\bar{5}$ 6	10 53'	44 07'	10 24	43 36'	7 33'	43 08	0'1833	0'9525	0'9700
93	B:	$+\frac{1}{2}\frac{1}{4}$	21 $\bar{3}$ 4	19 06'	40 03	15 22'	38 26'	12 09	37 26	0'2749	0'7938	0'8401
94	H:	$-\frac{2}{5}\frac{1}{5}$	31 $\bar{3}$ 5	"	33 54	12 24'	32 25	10 31	31 48'	0'2200	0'6350	0'6720
95	Y:	$+\frac{2}{3}\frac{1}{3}$	61 $\bar{7}$ 3	7 35'	70 11'	20 08	70 01'	7 08	68 50'	0'3666	2'7517	2'7761
96	Z:	$+\frac{1}{2}\frac{1}{4}$	41 $\bar{5}$ 2	10 53'	71 02	28 48'	70 42'	10 17'	68 13'	0'5499	2'8576	2'9101
97	Q:	$+\frac{3}{5}\frac{1}{7}$	21'5'26'7	10 26'	77 00'	38 09	76 48	10 10	73 23'	0'7856	4'2637	4'3355
98	S:	$-\frac{1}{2}\frac{1}{2}$	19'15'34'5	26 07	82 24	73 08'	81 33	25 52	62 52'	3'2997	6'7312	7'4965
99	II:	$-38'3$	38'3'41'1	3 46	88 51'	"	88 51'	3 46	86 04	"	50'167	50'275
100	P:	$-47'3$	47'3'50'1	3 04	89 04	"	89 04	3 04	86 48	"	61'597	61'686
101	E:	$-56'3$	56'3'59'1	2 35	89 13	"	89 13	2 35	87 18	"	73'028	73'102
102	A:	$-92'3$	92'3'95'1	1 33'	89 31	"	89 31	1 33'	88 22'	"	118'75	118'79
103	P:	$+\frac{1}{2}\frac{1}{2}$	18'1'19'2	2 41	85 08'	28 48'	85 08	2 40	84 26'	0'5499	11'748	11'761
104	O:	$+\frac{2}{3}\frac{1}{2}$	21'1'22'2	2 18	85 49	"	85 48'	2 18	85 13	"	13'653	13'664
105	F:	$+\frac{4}{7}\frac{1}{7}$	41'1'42'37	1 12	54 56	1 42	54 56	0 58'	54 55	0'0297	1'4245	1'4245
106	H:	$+\frac{2}{7}\frac{1}{7}$	21'1'22'17	2 18'	58 07	3 42	58 05'	1 57'	58 02'	0'0647	1'6062	1'6075
107	J:	$+\frac{1}{3}\frac{1}{3}$	19'1'20'15	2 32'	58 49'	4 11'	58 48	2 10'	58 44	0'0733	1'6510	1'6527
108	M:	$+\frac{1}{7}\frac{1}{7}$	11'1'12'7	4 18'	64 27'	8 56	64 23'	3 53	64 07	0'1571	2'0865	2'0924
109	E:	$+\frac{2}{3}\frac{3}{3}$	23'3'26'11	6 03	70 38	16 42	70 32	5 42'	69 44'	0'3000	2'8288	2'8447
110	N:	$+\frac{7}{8}\frac{1}{2}$	14'1'15'4	3 25	77 46	15 22'	77 44'	3 20'	77 18'	0'2749	4'6039	4'6122
111	L:	$+\frac{1}{8}\frac{1}{8}$	11'1'12'8	4 18'	61 21'	7 50	61 17'	3 48	61 04	0'1375	1'8257	1'8308
112	K:	$+\frac{4}{3}\frac{1}{3}$	12'1'13'9	3 58	60 30'	6 58	60 27	3 28	60 16	0'1222	1'7640	1'7674
113	R:	$+\frac{4}{5}\frac{1}{5}$	8'1'9'10	5 49	47 20'	6 16'	47 11'	4 16'	47 01	0'1115	1'0795	1'0851
114	S:	$+\frac{7}{8}\frac{1}{4}$	7208	12 13	52 25	15 22'	41 47	9 39	50 46	0'2749	1'2701	1'2995
115	I:	$+\frac{5}{2}\frac{1}{2}$	10'5'15'2	19 06'	83 12'	70 01	82 49	18 58	69 46	2'7494	7'9378	8'4006
116	G:	$+\frac{6}{11}\frac{1}{11}$	66'10'76'11	6 57'	83 06	45 00	83 02'	6 54	80 12'	0'9999	8'1973	8'2583
117	O:	$-\frac{8}{2}\frac{1}{2}$	16'15'31'2	28 56	86 38'	83 05'	86 10	28 52'	60 53'	8'2492	14'923	17'051
118	D:	$+\frac{6}{4}\frac{3}{4}$	61'3'64'4	2 23	87 07	39 31	87 07	2 22'	86 15	0'8249	19'844	19'861
119	A:	$-\frac{8}{3}\frac{2}{3}$	8'2'10'9	10 53'	52 17'	13 44	41 47	8 36	50 58'	0'2444	1'2701	1'2934
120	F:	$-\frac{17}{18}\frac{5}{18}$	17'5'22'18	12 31	54 38'	16 59'	53 59'	10 11	52 46	0'3055	1'3758	1'4094
121	B:	$+\frac{1}{7}\frac{3}{7}$	13'3'16'7	10 09'	69 29	25 14'	69 11	9 30'	67 12'	0'4714	2'6307	2'6726
122	C:	$+\frac{23}{14}\frac{3}{14}$	23'3'26'14	6 03	65 54	13 15'	65 46'	5 31'	65 11'	0'2357	2'2226	2'2351
123	A:	$+\frac{37}{31}\frac{3}{31}$	37'3'40'31	3 51'	57 41	6 04'	57 37'	3 15'	57 28'	0'1064	1'5773	1'5809

Quenstedtit.

Monoklin.

$a = 0.6661$	$\lg a = 982354$	$\lg a_0 = 000578$	$\lg p_0 = 999422$	$a_0 = 1.0134$	$p_0 = 0.9869$
$c = 0.6573$	$\lg c = 981776$	$\lg b_0 = 018224$	$\lg q_0 = 980835$	$b_0 = 1.5214$	$q_0 = 0.6432$
$\mu = \begin{cases} 180 \\ \beta \end{cases} \begin{cases} 78 \\ 07 \end{cases}$	$\lg h = \begin{cases} 999059 \\ \lg \sin \mu \end{cases}$	$\lg e = \begin{cases} 931370 \\ \lg \cos \mu \end{cases}$	$\lg \frac{p_0}{q_0} = 018587$	$h = 0.9786$	$e = 0.2059$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	b	∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	q	∞	530	68 38	"	90 00	"	68 38	21 21	2'5569	"	"
3	r	∞	320	66 29	"	"	"	66 29	23 31	2'3012	"	"
4	s	∞	110	56 54	"	"	"	56 54	33 06	1'5341	"	"
5	u	∞	780	53 19	"	"	"	53 19	36 41	1'3424	"	"
6	v	∞	340	49 00	"	"	"	49 00	40 59	1'1506	"	"
7	w	∞	230	45 39	"	"	"	45 39	44 21	1'0227	"	"
8	m	∞	035	28 05	24 05	11 53	21 31	11 04	21 06	0'2104	0'3944	0'4470
9	p	01	011	17 45	34 37	"	33 19	9 58	32 45	"	0'6573	0'6902

Ralstonit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	$\begin{cases} 0 \\ \infty \end{cases}$	$\begin{cases} 001 \\ 010 \end{cases}$	$\begin{cases} - \\ 0°00 \end{cases}$	$\begin{cases} 0°00 \\ 90°00 \end{cases}$	$\begin{cases} 0°00 \\ " \end{cases}$	$\begin{cases} 0°00 \\ 90°00 \end{cases}$	$\begin{cases} 0°00 \\ " \end{cases}$	$\begin{cases} 0°00 \\ 90°00 \end{cases}$	$\begin{cases} 0 \\ " \end{cases}$	$\begin{cases} 0 \\ \infty \end{cases}$	$\begin{cases} 0 \\ \infty \end{cases}$
2	p	1	111	45 00	54 44	45 00	45 00	35 16	35 16	1'0000	1'0000	1'4142

Rammelsbergit.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 026977; \frac{p_0}{q_0} = 1.8611; \frac{a}{b} = 0.5373$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	m	∞	110	61°45	90°00	90°00	90°00	61°45	28°15	1.8611	∞	∞

Raspit.

Monoklin.

a = 1'3493	lg a = 013010	lg a _o = 008430	lg p _o = 991570	a _o = 1'2142	p _o = 0.8235'
c = 1'1112	lg c = 004580	lg b _o = 995420	lg q _o = 002478	b _o = 0.8999	q _o = 1'0587
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 72^{\circ}19$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 997898$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 948252$	$\lg \frac{p_o}{q_o} = 989092$	h = 0.9527	e = 0.3037'

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	17°41	17°41	0°00	17°41	0°00	0.3188	o	0.3188
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞ o	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	d	01	011	16 00'	49 08'	17 41	48 01	12 02'	46 38	0.3188	1'1112	1'1561
5	e	10	101	90 00	28 37	28 37	0 00	28 37	0 00	0.5456	o	0.5456

Realgar.

Monoklin.

a = 0.7202	lga = 985745	lga _o = 017046	lg p _o = 982954	a _o = 1.4807	p _o = 0.6754
c = 0.4864	lg c = 968699	lg b _o = 031301	lg q _o = 964800	b _o = 2.0560	q _o = 0.4446
$\mu = \left. \begin{matrix} \\ 180 - \beta \end{matrix} \right\} 66^{\circ}05$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 996101$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 960789$	$\lg \frac{p_o}{q_o} = 018154$	h = 0.9141	e = 0.4054

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	23°55	23°55	0°00	23°55	0°00	0.4435	o	0.4435
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞ o	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	χ	3 ∞	310	77 37'	"	"	90 00	77 37'	12 22'	4.5568	∞	"
5	i	2 ∞	210	71 47	"	"	"	71 47	18 13	3.0379	"	"
6	α	$\infty \frac{2}{3}$	320	66 18	"	"	"	66 18	23 42	2.2784	"	"
7	g	$\infty \frac{2}{3}$	540	62 13'	"	"	"	62 13'	27 46'	1.8987	"	"
8	l	$\infty \frac{2}{3}$	110	56 38'	"	"	"	56 38'	33 21'	1.5189	"	"
9	β	$\infty \frac{3}{4}$	340	48 43'	"	"	"	48 43'	41 16'	1.1392	"	"
10	w	$\infty \frac{3}{4}$	230	45 21'	"	"	"	45 21'	44 38'	1.0126	"	"
11	γ	$\infty \frac{3}{4}$	350	42 21	"	"	"	42 21.	47 39	0.9113	"	"
12	m	$\infty \frac{2}{3}$	120	37 13	"	"	"	37 13	52 47	0.7595	"	"
13	h	$\infty \frac{2}{3}$	370	33 04	"	"	"	33 04	56 56	0.6510	"	"
14	ζ	$\infty \frac{2}{3}$	250	31 17	"	"	"	31 17	58 43	0.6076	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg\varrho$
15	v	∞3	130	26° 51'	90° 00'	90° 00'	90° 00'	26° 51'	63° 09'	0° 5063	∞	∞
16	μ	∞4	140	20 47'	"	"	"	20 47'	69 12'	0° 3797'	"	"
17	δ	∞5	150	16 54	"	"	"	16 54	73 06	0° 3038	"	"
18	r	01	011	42 21'	33 21	23 55	25 56'	21 44'	23 58'	0° 4435	0° 4864	0° 6582
19	s	0 $\frac{3}{2}$	032	31 17'	40 29'	"	"	36 07	19 42'	"	0° 7296	0° 8538
20	q	02	021	24 30'	46 55	"	"	44 12'	17 38	"	0° 9728	1° 0691
21	y	03	031	16 54'	56 45	"	"	54 34'	14 04'	"	1° 4592	1° 5251
22	X	05	051	10 20	67 58'	"	"	67 39	9 34'	"	2° 4320	2° 4720
23	ε	+10	101	90 00	49 46'	49 46'	0 00	49 46'	0 00	1° 1823	0	1° 1823
24	x	-10	101	90 00	16 28	16 28	"	16 28	"	0° 2953'	"	0° 2953'
25	z	-20	201	"	45 58	45 58	"	45 58	"	1° 0342	"	1° 0342
26	f	+1	111	67 38'	51 58	49 46'	25 56'	46 45'	17 26'	1° 1823	0° 4864	1° 2785
27	G	+ $\frac{1}{2}$	112	73 20'	40 19	39 06'	13 40	38 18'	10 41	0° 8129	0° 2432	0° 8485
28	J	- $\frac{1}{2}$	112	16 56'	14 16	4 14	"	4 07	13 38	0° 0740'	"	0° 2542
29	n	-1	111	31 16	29 38'	16 27'	25 56'	14 52'	25 00'	0° 2953'	0° 4864	0° 5691
30	H	-2	221	46 45	54 50'	45 58	44 12'	36 33	34 04	1° 0341	0° 9728	1° 4198
31	B	+ $1\frac{2}{5}$	15'2'15	86 51'	49 49	49 46'	3 42'	49 43	2 24	1° 1823	0° 0648	1° 1841
32	C	-1 $\frac{1}{3}$	313	61 14	18 37	16 27'	9 12'	16 15'	8 50'	0° 2953'	0° 1621'	0° 3369
33	D	-1 $\frac{1}{2}$	212	50 32	20 56	"	13 40	16 01	13 08	"	0° 2432	0° 3826
34	E	-1 $\frac{3}{2}$	232	22 02'	38 12'	"	36 07	13 25	34 59	"	0° 7296	0° 7871
35	e	-12	121	16 53'	45 28'	"	44 12'	11 57	43 01	"	0° 9728	1° 0166
36	k	-13	131	11 26'	56 07	"	55 34'	9 29	54 27	"	1° 4592	1° 4888
37	F	-14	141	8 38	63 04	"	62 48	7 41'	61 49	"	1° 9456	1° 9679
38	Φ	-18	181	4 20'	75 37'	"	75 35	4 12'	75 00	"	3° 8912	3° 9023
39	A	- $\frac{1}{2}$ 1	122	8 39'	26 12	4 14	25 56'	3 48'	25 52'	0° 0740'	0° 4864	0° 4920
40	d	-21	211	64 49	48 49	45 58	"	42 55'	18 41	1° 0341	"	1° 1429
41	t	-31	311	74 39'	61 27'	60 34'	"	57 54	13 26'	1° 7730	"	1° 8386
42	p	-41	411	79 02'	68 39	68 17'	"	66 07'	10 12	2° 5119	"	2° 5585
43	π	- $\frac{1}{2}$ 2	142	4 21	44 17'	4 14	44 12'	3 02'	44 08	0° 0740'	0° 9728	0° 9756
44	K	-23	231	35 19'	60 47'	45 58	55 34'	30 19	45 24'	1° 0341	1° 4592	1° 7885

Reddingit.

Rhombisch.

a = 0° 9148	lga = 996134	lg a ₀ = 993842	lg p ₀ = 006158	a ₀ = 0.8678	p ₀ = 1.1523
c = 1° 0542	lg c = 002292	lg b ₀ = 997708	lg q ₀ = 002292	b ₀ = 0° 9486	q ₀ = 1° 0542

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $tg\varrho$
1	b	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	p	1	111	47° 33	57 22	49 03	46 30'	38 25	34 38'	1° 1523	1° 0542	1° 5618
3	q	2	221	"	72 15	66 32'	64 37'	44 39'	40 00'	2° 3047	2° 1084	3° 1236
4	r	12	121	28 39'	67 24	49 03	"	26 17	54 06'	1° 1523	"	2° 4028
5	s	1 $\frac{3}{2}$	232	36 05	62 56	"	57 41'	31 38	46 01'	"	1° 5813	1° 9566
6	t	1 $\frac{1}{2}$	212	65 25	51 43'	"	27 47'	45 33	19 03'	"	0° 5271	1° 2672

Reinit.

Tetragonal.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1.279$	$\lg c = 0.10687$	$\lg a_0 = 9.89313$	$a_0 = 0.7819$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	e	01	011	0° 00	51° 59	0° 00	51° 59	0° 00	51° 59	0	1.2790	1.2790
2	p	1	111	45 00	61 04	51 59	"	38 14	38 14	1.2790	"	1.8087

Rhodizit.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 011 \\ 110 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45^\circ 00 \\ 90 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 0^\circ 00 \\ 45 00 \end{matrix} \right.$	$\left\{ \begin{matrix} 45^\circ 00 \\ " \end{matrix} \right.$	$\left\{ \begin{matrix} 0 \\ 1.0000 \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$	$\left\{ \begin{matrix} 1.0000 \\ \infty \end{matrix} \right.$
2	pp'	± 1	111	"	54 44	45 00	45 00	35 16	35 16	"	1.0000	1.4142

Rinkit.

Monoklin.

$a = 1.5688$	$\lg a = 0.19556$	$\lg a_0 = 0.72988$	$\lg p_0 = 9.27012$	$a_0 = 5.3689$	$p_0 = 0.1863$
$c = 0.2922$	$\lg c = 9.46568$	$\lg b_0 = 0.53432$	$\lg q_0 = 9.46568$	$b_0 = 3.4223$	$q_0 = 0.2921$
$\left. \begin{matrix} \mu = \\ 180 - \beta \end{matrix} \right\} 88^\circ 47$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 9.99990$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 8.32702$	$\left. \begin{matrix} \lg \frac{p_0}{q_0} = \\ \end{matrix} \right\} 9.80454$	$h = 0.9998$	$e = 0.0212$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tge
1	r	∞	100	90° 00	90° 00	90° 00	0° 00	90° 00	0° 00	∞	0	∞
2	s	$\frac{3}{2}\infty$	320	43 43'	"	"	90 00	43 43'	46 16'	0.9563	∞	"
3	M	∞	110	32 31	"	"	"	32 31	57 29	0.6376	"	"
4	h	$\infty 2$	120	17 41	"	"	"	17 41	72 19	0.3188	"	"
5	n	$+10$	101	90 00	11 43'	11 43'	0 00	11 43'	0 00	0.2075	0	0.2075
6	m	-10	101	90 00	9 23	9 23	"	9 23	"	0.1651	"	0.1651
7	o	$+34$	341	26 23'	52 32	30 07	49 27	20 39'	45 19	0.5800	1.1688	1.3048

Römerit.

Triklin.

$p_0 = 0.4018$	$\lambda = 81^\circ 17'$	$a = 2.6425$	$\alpha = 99^\circ 53'$	$x_0 = 0.0805$	$d = 0.1716$
$q_0 = 1.0746$	$\mu = 89^\circ 36'$	$b = 1$	$\beta = 94^\circ 30'$	$y_0 = 0.1515$	$\delta = 28^\circ 00'$
$r_0 = 1$	$\nu = 115^\circ 40'$	$c = 0.9684$	$\gamma = 63^\circ 57'$	$h = 0.9852$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	a	o	001	28° 00'	9° 53'	4° 40'	8° 44'	4° 37'	8° 43'	0.0818	0.1538	0.1742
2	b	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	c	$\infty 0$	100	115 40	"	90 00	90 00	64 20	35 40	2.0810	"	"
4	q	∞	110	21 54	"	"	90 00	21 54	68 05	0.4021	"	"
5	n	2 ∞	210	44 54	"	"	"	44 54	45 05	0.9968	"	"
6	s	3 ∞	310	63 02	"	"	"	63 02	26 57	1.9661	"	"
7	t	1.8 ∞	18.5.0	71 01	"	"	"	71 01	18 58	2.9089	"	"
8	l	4 ∞	410	75 21	"	"	"	75 21	14 38	3.8282	"	"
9	e	$\infty \infty$	110	163 49	"	"	90 00	16 10	73 49	0.2900	"	"
10	μ	0.3 ∞	023	5 18	41 30	4 40	41 23	3 30	41 17	0.0818	0.8809	0.8847
11	m	01	011	175 00	43 14	"	43 08	3 25	43 02	"	0.9370	0.9406
12	y	8.0	805	100 53	34 18	33 49	7 20	33 36	6 06	0.6699	0.1288	0.6822
13	x	10	101	40 52	23 36	15 57	18 17	15 11	17 37	0.2859	0.3304	0.4370

Romëit.

Tetragonal.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1.0257$	$\lg c = 0.01102$	$\lg a_0 = 9.98898$	$a_0 = 0.9749$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	e	1	111	45° 00'	55° 25'	45° 43'	45° 43'	35° 36'	35° 36'	1.0257	1.0257	1.4505

Roselith.

Triklin.

$p_0 = 0.6914$	$\lambda = 89^\circ 20'$	$a = 1.3121$	$\alpha = 90^\circ 40'$	$x_0 = 0.0176$	$d = 0.0211$
$q_0 = 0.9092$	$\mu = 89^\circ 00'$	$b = 1$	$\beta = 91^\circ 00'$	$y_0 = 0.0116$	$\delta = 56^\circ 29'$
$r_0 = 1$	$\nu = 90^\circ 35'$	$c = 0.9072$	$\gamma = 89^\circ 26'$	$h = 0.9998$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	A	∞	010	0° 00'	90° 00'	0° 00'	90° 00'	0° 00'	90° 00'	0	∞	∞
2	C	$\infty 0$	100	90 35'	"	90 00'	90 00'	89 25'	0 25'	137.51	"	"
3	ζ	$\infty \frac{4}{3}$	340	29 50'	"	"	90 00'	29.50'	60 09'	0.5737	"	"
4	ν	∞	110	37 27'	"	"	"	37 27'	52 32'	0.7663	"	"
5	φ	$\frac{3}{2} \infty$	320	49 05'	"	"	"	49 05'	40 55'	1.1538	"	"
6	η	3∞	310	66 49'	"	"	"	66 49'	23 11'	2.3352	"	"
7	e	$\frac{3}{2} \infty$	310	114 09'	"	"	90 00'	65 50'	24 09'	2.2294	"	"
8	f	$\frac{2}{3} \infty$	320	131 34'	"	"	"	48 26'	41 34'	1.1275	"	"
9	i	$\frac{2}{3} \infty$	110	142 58'	"	"	"	37 02'	52 58'	0.7545	"	"
10	z	$\frac{4}{3} \infty$	340	150 27'	"	"	"	29 33'	60 27'	0.5670	"	"
11	?m	$0 \frac{1}{2} \frac{1}{2}$	012	2 09'	25 01'	1 00'	25 00'	0 54'	25 00'	0.0176	0.4663	0.4666
12	?M	$0 \frac{1}{2} \frac{1}{2}$	012	177 43'	23 55'	"	23 54'	0 55'	23 53'	"	0.4431	0.4434
13	d	$\frac{1}{4} 0$	104	87 01'	10 48'	10 47'	0 34'	10 47'	0 33'	0.1905	0.0099	0.1907
14	Δ	$\frac{1}{4} 0$	104	85 06'	8 51'	8 49'	0 46'	8 49'	0 45'	0.1552	0.0133	0.1558
15	L	$1 \frac{2}{3}$	323	49 15'	45 06'	35 20'	31 25'	31 11'	26 29'	0.6930	0.6108	0.9360
16	S	$1 \frac{1}{2} \frac{1}{2}$	212	57 04'	40 11'	"	24 40'	32 48'	20 32'	"	0.4593	0.8449
17	σ	$1 \frac{1}{2} \frac{1}{2}$	212	122 24'	40 01'	"	24 14'	32 53'	20 09'	"	0.4501	0.8399
18	λ	$1 \frac{2}{3}$	323	130 18'	42 55'	"	31 02'	31 17'	26 08'	"	0.6016	0.9300
19	s	$1 \frac{1}{2} \frac{1}{2}$	212	54 55'	39 28'	33 58'	25 19'	31 21'	21 25'	0.6739	0.4733	0.8236
20	Σ	$1 \frac{1}{2} \frac{1}{2}$	212	122 54'	38 45'	"	23 33'	31 42'	19 53'	"	0.4361	0.8028
21	Δ	$1 \frac{2}{3}$	323	130 05'	41 48'	"	30 26'	30 09'	25 59'	"	0.5876	0.8942
22	Ω	$\frac{1}{2} \frac{1}{2}$	112	143 15'	28 45'	18 10'	23 44'	16 43'	22 40'	0.3282	0.4396	0.5486
23	o	$\frac{1}{2} \frac{1}{2}$	112	34 56'	29 49'	"	25 10'	16 32'	24 03'	"	0.4698	0.5731
24	?G	$\frac{1}{4}$	114	38 46'	16 55'	10 47'	13 20'	10 30'	13 07'	0.1905	0.2372	0.3042
25	g	$\frac{1}{4} \frac{1}{2}$	114	32 49'	16 00'	8 49'	13 32'	8 35'	13 22'	0.1552	0.2406	0.2864
26	Π	$\frac{1}{4} \frac{1}{2}$	812	98 35'	70 13'	70 00'	22 32'	68 30'	8 04'	2.7487	0.4151	2.7798
27	p	$\frac{1}{4} \frac{1}{2}$	812	79 48'	70 18'	"	26 18'	67 54'	9 35'	"	0.4943	2.7928

Rosenbuschit.

Monoklin.

$a = 1.1687$	$\lg a = 0.06770$	$\lg a_o = 0.08218$	$\lg p_o = 9.91782$	$a_o = 1.2083$	$p_o = 0.8276$
$c = 0.9672$	$\lg c = 9.98552$	$\lg b_o = 0.01448$	$\lg q_o = 9.97627$	$b_o = 1.0339$	$q_o = 0.9468$
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 78^\circ 13$	$\lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 9.99075$	$\lg e = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 9.31008$	$\lg \frac{p_o}{q_o} = 9.94155$	$h = 0.9789$	$e = 0.2042$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	11°47	11°47	0°00	11°47	0°00	0.2086	o	0.2086
2	a	∞o	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	h	$\frac{3}{2}\infty$	540	47 32	"	"	90 00	47 32	42 28	1.0926	∞	"
4	s	$\frac{2}{3}o$	201	90 00	55 59'	55 59'	0 00	55 59'	0 00	1.4822	o	1.4822

Rothbleierz.

Monoklin.

$a = 0.9602$	$\lg a = 9.98236$	$\lg a_o = 0.01994$	$\lg p_o = 9.98006$	$a_o = 1.0470$	$p_o = 0.9551$
$c = 0.9171$	$\lg c = 9.96242$	$\lg b_o = 0.03758$	$\lg q_o = 9.95192$	$b_o = 1.0904$	$q_o = 0.8952$
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 77^\circ 27$	$\lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 9.98950$	$\lg e = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 9.33704$	$\lg \frac{p_o}{q_o} = 0.02814$	$h = 0.9761$	$e = 0.2173$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	12°33	12°33	0°00	12°33	0°00	0.2226	o	0.2226
2	b	o∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞o	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	a	3∞	310	72 39	"	"	90 00	72 39	17 21	3.2008	∞	"
5	d	2∞	210	64 53'	"	"	"	64 53'	25 06'	2.1339	"	"
6	m	∞	110	46 51'	"	"	"	46 51'	43 08'	1.0670	"	"
7	ζ	$\frac{3}{2}\infty$	350	32 37'	"	"	"	32 37'	57 22'	0.6401	"	"
8	f	$\frac{2}{3}\infty$	120	28 05	"	"	"	28 05	61 55	0.5335	"	"
9	w	$o\frac{1}{2}$	012	25 54	27 00'	12 33	24 38	11 26'	24 07'	0.2226	0.4585	0.5097
10	z	o1	011	13 38'	43 20'	"	42 31'	9 19	41 50	"	0.9171	0.9437
11	y	o2	021	6 55	61 34'	"	61 24	6 05	60 49	"	1.8342	1.8476
12	h	+10	101	90 00	50 13	50 13	0 00	50 13	0 00	1.2011	o	1.2011
13	ϑ	+ $\frac{3}{2}o$	502	"	69 25	69 25	"	69 25	"	2.6627	"	2.6627
14	n	+4o	401	"	76 24'	76 24'	"	76 24'	"	4.1365	"	4.1365
15	χ	+8o	801	"	82 55	82 55	"	82 55	"	8.0503	"	8.0503

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
16	Θ	-60	60I	90°00	79°57'	79°57'	0°00	79°57'	0°00	5·6483	0	5·6483
17	ε	-50	50I	"	77 55	77 55	"	77 55	"	4·6697	"	4·6697
18	l	-40	40I	"	74 50'	74 50'	"	74 50'	"	3·6912	"	3·6912
19	x	-30	30I	"	69 46	69 46	"	69 46	"	2·7128	"	2·7128
20	k	-10	10I	"	37 05	37 05	"	37 05	"	0·7558	"	0·7558
21	t	+1	11I	52 38	56 30'	50 13	42 31'	41 31	30 24'	1·2011	0·9171	1·5112
22	N	+71	71I	82 36'	82 01	81 57	"	79 08'	7 19	7·0720	"	7·1312
23	ψ	+91	91I	84 12	83 43	83 41	"	81 27	5 46	9·0288	"	9·0752
24	e	+11·1	11·1I	85 14	84 49	84 48	"	82 57'	4 45	10·9855	"	11·024
25	τ	-91	91I	83 54	83 23'	83 21'	"	81 01	6 03'	8·5836	"	8·6324
26	A	-51	51I	78 53'	78 08	77 55	"	73 48	10 52	4·6697	"	4·7589
27	ξ	-41	41I	76 03	75 16	74 50'	"	69 49	13 29	3·6912	"	3·8034
28	φ	-31	31I	71 19'	70 45	69 46	"	63 25'	17 36	2·7128	"	2·8637
29	u	-21	21I	62 08	62 59'	60 02	"	51 58	24 37	1·7343	"	1·9619
30	π	+2	22I	49 55	70 39'	65 21	61 24	46·13	37 24'	2·1795	1·8342	2·8487
31	θ	+3	33I	48 56	76 34'	72 26	70 01'	47 10	39 43	3·1580	2·7513	4·1884
32	s	+4	44I	48 26	79 45	76 24'	74 45	47 24'	40 45'	4·1365	3·6684	5·5288
33	λ	-1/2	112	30 10'	27 56'	14 55'	24 38	13 37'	23 54	0·2666	0·4586	0·5304
34	γ	-2/3	223	35 06	36 46	23 15	31 26'	20 08	29 19'	0·4297	0·6114	0·7473
35	v	-1	111	39 30	49 55'	37 05	42 31'	29 07	36 11'	0·7559	0·9171	1·1609
36	η	+2 1/2	412	78 07	65 49	65 21	24 38	63 13	10 49'	2·1795'	0·4585'	2·2272
37	L	+1 5/10	2·1·10	77 38	23 11	22 42	5 14'	22 37	4 50	0·4183	0·0917	0·4282
38	g	+84	84I	65 30	83 33	82 55	74 45	64 43	24 20	8·0504	3·6684	8·8466
39	i	+1 2/3	123	41 54'	39 24	28 45	31 26'	25 05	28 11'	0·5487	0·6114	0·8215
40	D	-2 5/6	265	8 43	48 04'	9 34'	47 44'	6 28'	47 20'	1·6873	1·1005	1·1134
41	Q	+3 5/3	953	64 12	74 06	72 27	56 48'	59 59	24 45	3·1611'	1·5285	3·5112
42	r	-3 1/2	612	80 24'	70 01'	69 46	24 38	67 56	9 01	2·7128	0·4585'	2·7512
43	q	+12·4	12·4I	72 57	85 26	85 13'	74 45	72 22'	16 59'	11·9640	3·6684	12·513
44	Y	-93	9·3·I	72 13'	83 40	83 21'	70 01'	71 10	17 39'	8·5836	2·7513	9·0136
45	F	-62	6·2·I	72 00'	80 26'	79 57'	61 24	69 42	17 44	5·6483	1·8342	5·9386
46	β	-3 1/2	312	69 47	52 59'	51 14	24 38	48 32	16 01'	1·2450	0·4585'	1·3268
47	μ	+1 1/4	154	22 10'	51 04	25 03	48 54	17 04'	46 05	0·4672'	1·1464	1·2380
48	G	+4 1/2	812	83 40'	76 29	76 24'	24 38	75 06	6 09	4·1356	0·4585'	4·1609
49	B	-52	52I	68 33'	78 43'	77 55	61 24	65 54	21 00'	4·6697	1·8342	5·0170
50	δ	+11·10	11·10I	50 08'	86 00	82 57'	83 46'	49 58'	39 44'	10·9855	9·1710	14·311
51	p	-1 2/3	13·1·5	85 29	66 45'	66 41'	10 23'	66 21	4 09	2·3213	0·1834	2·3286
52	R	-18·4	18·4I	78 05'	86 47	86 42'	74 45	77 40	11 53'	17·3900	3·6684	17·773
53	σ	+3 2/3	352	36 24	70 39'	59 23'	66 26	34 03	49 25	1·6902'	2·2928	2·8485
54	E	-3 1/4	328	32 10'	15 09'	8 12'	12 55	8 00'	12 47	0·1442'	0·2293	0·2709
55	M	+2 1/3	6·10·9	40 37	53 19	41 09	45 32'	31 28	37 30	0·8739	1·0190	1·3424
56	H	+1 2/3	435	61 18'	48 54	45 09'	28 49'	41 22'	21 12'	1·0054	0·5502'	1·1462
57	o	-4 7/10	8·7·10	41 06'	40 26	29 15'	32 42	25 14'	29 15	0·5602	0·6420	0·8520

Rothgiltigerz. Proustit.

Hexagonal. Rhomboedrisch-hemiedrisch. Hemimorph.

$c = 0.8034$	$\lg c = 990493$	$\lg a_0 = 033363$	$\lg p_0 = 972884$	$a_0 = 2.1559$	$p_0 = 0.5356$	(G_2)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ ₀	η ₀	ξ	η	X (Prismen) (x:y)	y	d =tgϱ
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞o	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	σ	$\frac{2}{3}\infty$	9.8.17.0	28 03	"	"	"	28 03	61 56	0.5329	"	"
5	η	$\frac{2}{3}\infty$	2130	19 06	"	"	"	19 06	70 53	0.3464	"	"
6	ζ	$\frac{2}{3}\infty$	5270	16 06	"	"	"	16 06	73 54	0.2887	"	"
7	θ	4∞	4150	10 53	"	"	"	10 53	79 06	0.1924	"	"
8	q	$\frac{1}{2}o$	1012	0 00	14 59	0 00	14 59	0 00	14 59	o	0.2678	0.2678
9	π	10	1011	"	28 10	"	28 10	"	28 10	"	0.5356	0.5356
10	ρλ	20	2021	"	46 58	"	46 58	"	46 58	"	1.0712	1.0712
11	ρa	40	4041	"	58 06	"	58 06	"	58 06	"	1.6068	1.6068
12	v	$-\frac{1}{3}$	1128	30 00	6 37	3 19	5 44	3 18	5 43	0.0580	0.1004	0.1160
13	ρa	$-\frac{1}{3}$	1125	"	10 30	5 18	9 07	5 14	9 05	0.0928	0.1607	0.1855
14	d	$+\frac{1}{4}$	1124	"	13 03	6 37	11 21	6 29	11 17	0.1160	0.2008	0.2319
15	ρfδ	$\pm\frac{1}{2}$	1122	"	24 53	13 03	21 53	12 08	21 22	0.2319	0.4017	0.4638
16	x	$+\frac{5}{8}$	5.5.10.8	"	30 06	16 10	26 39	14 31	25 45	0.2899	0.5021	0.5798
17	w	$+\frac{7}{10}$	7.7.14.10	"	32 59	17 59	29 21	15 48	28 08	0.3247	0.5624	0.6494
18	v	$+\frac{5}{6}$	5.5.10.6	"	37 42	21 08	33 48	17 48	31 59	0.3865	0.6695	0.7731
19	ρ?κ	± 1	1121	"	42 51	24 53	38 46	19 53	36 05	0.4638	0.8034	0.9277
20	z?ϱ	$\pm\frac{3}{2}$	3362	"	54 18	34 49	50 19	23 57	44 41	0.6958	1.2051	1.3915
21	φ	-2	2241	"	61 40	42 51	58 06	26 07	49 40	0.9277	1.6068	1.8554
22	k	$+\frac{5}{2}$	5.5.10.2	"	66 40	49 13	63 32	27 20	52 40	1.1596	2.0085	2.3192
23	l	$-\frac{7}{2}$	7.7.14.2	"	72 53	58 22	70 25	28 32	55 51	1.6235	2.8119	3.2469
24	ρm	+4	4481	"	74 55	61 40	72 43	28 52	56 44	1.8554	3.2136	3.7108
25	Ξ	-5	5.5.10.1	"	77 50	66 40	76 01	29 15	57 50	2.3192	4.0170	4.6384
26	ρΦ	-14.14	14.14.28.1	"	85 36	81 15	84 55	29 54	59 42	6.4938	11.248	12.988
27	h	$-\frac{2}{3}\frac{1}{3}$	2133	19 06	25 17	8 47	24 03	8 02	23 48	0.1546	0.4463	0.4724
28	i	$-\frac{5}{2}\frac{2}{7}$	5277	16 06	25 32	7 34	24 33	6 52	24 28	0.1325	0.4591	0.4778
29	z	$-\frac{4}{3}\frac{1}{3}$	4155	10 53	26 08	5 18	25 44	4 46	25 38	0.0928	0.4820	0.4909
30	j	$-\frac{7}{8}\frac{1}{8}$	7188	6 35	26 49	3 19	26 39	2 58	26 37	0.0580	0.5021	0.5055
31	k	$-\frac{10}{20}\frac{1}{20}$	19.1.20.20	2 32	27 36	1 20	27 35	1 10	27 34	0.0232	0.5222	0.5227
32	o	$+\frac{1}{1}\frac{1}{9}$	19.1.20.19	"	28 49	1 24	28 48	1 13	28 46	0.0244	0.5497	0.5502
33	x	$+\frac{1}{1}\frac{1}{10}$	10.1.11.10	4 43	29 26	2 39	29 21	2 19	29 20	0.0464	0.5624	0.5643
34	l	$+\frac{1}{1}\frac{1}{7}$	7187	6 35	30 08	3 47	29 51	3 17	29 48	0.0662	0.5738	0.5777
35	m	$+\frac{1}{1}\frac{2}{11}$	11.2.13.11	8 13	30 33	4 49	30 18	4 10	30 12	0.0843	0.5843	0.5903
36	v	$+\frac{1}{1}\frac{1}{5}$	5165	8 57	30 49	5 18	30 30	4 34	30 24	0.0928	0.5892	0.5964

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x:y)	y	d =tg ϱ
37	t:	+1 $\frac{1}{2}$	4154	10° 53'	31° 32'	6° 37'	31° 04'	3° 40'	30° 54'	0·1160	0·6025	0·6136
38	n:	+1 $\frac{4}{3}$	13·4·17·13	13 00	32 33	8 07'	31 43	6 55'	31 27'	0·1427	0·6180	0·6343
39	g:	+1 $\frac{1}{3}$	3143	13 54	32 46	8 47'	32 00	7 28	31 42	0·1546	0·6249	0·6437
40	w:	+1 $\frac{2}{3}$	5273	16 06	33 47	10 30'	32 44	8 52	32 17'	0·1855	0·6427	0·6690
41	e:	+1 $\frac{1}{2}$	2132	19 06'	35 19	13 03'	33 48	10 54'	33 06'	0·2319	0·6695	0·7085
42	q:	+1 $\frac{1}{7}$	7·4·11·7	21 03	36 25'	14 50'	34 33	12 19	33 39	0·2650	0·6886	0·7379
43	b:	+1 $\frac{2}{3}$	3253	23 25	37 53'	17 11	35 32	14 07'	34 18	0·3092	0·7141	0·7782
44	E:	+ $\frac{7}{4}$ 1	7·4·11·4	21 03	52 14'	24 53	50 19	16 30	47 33	0·4638	1·2051	1·2912
45	F:	+21	2131	19 06'	54 47'	"	53 14'	15 30'	50 32	"	1·3390	1·4171
46	H:	+ $\frac{5}{2}$ 1	5272	16 06	59 07'	"	58 06	13 46	55 34	"	1·6067	1·6724
47	π :	+1 $\frac{3}{4}$ 1	13·4·17·4	13 00	64 07'	"	63 33	11 41	61 14'	"	2·0085	2·0613
48	K:	+41	4151	10 53'	67 50	"	67 28	10 05	65 25'	"	2·4102	2·4544
49	e:	+1 $\frac{1}{4}$ 1	19·4·23·4	9 22	70 40	"	70 25'	8 50	68 35'	"	2·8119	2·8499
50	N:	+1 $\frac{1}{2}$ 1	11·2·13·2	8 13	72 53	"	72 42	7 51	71 04	"	3·2136	3·2469
51	I:	+1 $\frac{3}{2}$ 1	13·2·15·2	7 03	75 10'	"	75 04	6 49	73 37	"	3·7492	3·7787
52	P:	+71	7181	6 35	76 06'	"	76 01	6 23'	74 39	"	4·0170	4·0437
53	Q:	+1 $\frac{5}{2}$ 1	15·2·17·2	6 10'	76 56'	"	76 52	6 01	75 34'	"	4·2848	4·3098
54	R:	+81	8191	5 49	77 40'	"	77 36'	5 41	76 23'	"	4·5526	4·5761
55	ζ :	+1 $\frac{7}{2}$ 1	17·2·19·2	5 30	78 20	"	78 17	5 23	77 07	"	4·8203	4·8427
56	T:	+10·1	10·1·11·1	4 43	79 57	"	79 55	4 38'	78 54'	"	5·6237	5·6429
57	ν :	+ $\frac{4}{2}$ 1	43·4·47·4	4 24	80 36'	"	80 34'	4 20'	79 38	"	6·0254	6·0433
58	?Z:	+2 $\frac{3}{2}$ 1	23·2·25·2	4 07'	81 11	"	81 09'	4 05	80 16'	"	6·4271	6·4437
59	U:	+13·1	13·1·14·1	3 40	82 08'	"	82 07'	3 38	81 20	"	7·2305	7·2455
60	κ :	+ $\frac{4}{2}$ 1	47·2·49·2	2 04	85 33	"	85 33	2 03'	85 06	"	12·854	12·863
61	a:	+ $\frac{8}{2}$ $\frac{2}{5}$	8·2·10·5	10 53'	44 28'	10 30'	43 57	7 36'	43 28	0·1855	0·9641	0·9818
62	b:	+ $\frac{7}{4}$ $\frac{1}{4}$	7184	6 35	45 18'	6 37	45 07'	4 41	44 55'	0·1160	1·0042	1·0109
63	?c:	-2 $\frac{1}{5}$	10·1·11·5	4 43	48 27'	5 18	48 21'	3 32'	48 14'	0·0928	1·1248	1·1286
64	n:	- $\frac{7}{2}$ 2	7·4·11·2	21 03	68 50	42 51	67 28	19 34	60 29'	0·9277	2·4102	2·5826
65	f:	-62	6281	13 54	75 29	"	75 04	13 27	70 00'	"	3·7492	3·8623
66	?q:	-82	8·2·10·1	10 53'	78 29	"	78 17	10 40'	74 12	"	4·8203	4·9079
67	u:	- $\frac{7}{5}$ $\frac{1}{2}$	14·5·19·10	14 42'	42 25	13 03'	41 28	9 51'	40 43'	0·2319	0·8837	0·9136
68	r:	-1 $\frac{7}{7}$ $\frac{1}{7}$	17·11·28·7	22 57	61 51'	36 05	59 51	20 06'	54 17'	0·7289	1·7216	1·8695
69	©:	-31	3141	13 54	62 37'	24 53	61 55'	12 19	59 32'	0·4638	1·8743	1·9311
70	?f:	-1 $\frac{6}{5}$ $\frac{4}{5}$	16·4·20·5	10 53'	63 00'	20 21'	62 35	9 41'	61 03	0·3711	1·9281	1·9635
71	h:	+1 $\frac{1}{8}$ $\frac{1}{4}$	17·2·19·8	5 30	50 26'	6 37	50 19	4 14	50 07'	0·1160	1·2051	1·2101
72	D:	+ $\frac{29}{5}$ $\frac{11}{5}$	29·11·40·5	15 26	75 23	45 35	74 51'	14 55'	68 52	1·0205	3·6957	3·8340
73	l:	+1 $\frac{1}{2}$ $\frac{5}{2}$	11·5·16·2	17 47	75 14'	49 13'	74 32'	17 11	67 03	1·1596	3·6152	3·7966
74	β :	+19·16	19·16·35·1	27 10	86 29	82 19'	86 02'	27 06'	62 37'	7·4215	14·461	16·254
75	W:	+13·10	13·10·23·1	25 41'	84 39'	77 50	84 04'	25 34'	63 47'	4·6384	9·6407	10·699
76	Σ	-1 $\frac{3}{5}$ $\frac{1}{5}$	13·1·14·5	3 40	55 23'	5 18	55 20	3 02	55 13'	0·0928	1·4461	1·4491
77	e:	-2 $\frac{1}{2}$	4152	10 53'	50 49'	13 03'	50 19	8 25'	49 34'	0·2319	1·2051	1·2272
78	γ :	-1 $\frac{1}{7}$ $\frac{1}{7}$	11·5·16·7	17 47	47 19'	18 20	45 55'	12 58'	44 26	0·3313	1·0329	1·0847

N _o .	Buchstaben	Symb.	Bravais	φ	ρ	ξ_0	η_0	ξ	η	X (Prismen) (x: y)	y	d =tg ρ
79	f:	$-\frac{5}{2}\frac{1}{2}$	5274	16° 06	39° 54	13° 03	38° 46	10° 15	38° 03	0·2319	0·8034	0·8362
80	?A	$+\frac{7}{3}\frac{1}{3}$	7185	6 35	38 58	5 18	"	4 08	38 39	0·0928	"	0·8087
81	ξ:	$+\frac{1}{7}\frac{1}{7}$	10·1·11·7	4 43	38 52	3 47	"	2 57	38 43	0·0663	"	0·8061
82	Γ	$+\frac{1}{8}\frac{1}{4}$	11·2·13·8	8 13	39 04	6 37	"	5 10	38 35	0·1160	"	0·8117
83	E	$+\frac{4}{3}\frac{1}{3}$	4153	10 53	39 17	8 47	"	6 52	38 27	0·1546	"	0·8181
84	Π	$+\frac{1}{16}\frac{5}{8}$	19·10·29·16	19 50	40 30	16 10	"	12 44	37 39	0·2899	"	0·8541
85	Θ	$+\frac{7}{4}\frac{5}{8}$	14·5·19·8	14 42	48 47	"	47 51	11 00	46 41	"	1·1047	1·1421
86	C:	$+\frac{2}{5}\frac{1}{2}$	4152	10 53	50 49	13 03	50 19	8 25	49 34	0·2319	1·2051	1·2272
87	G	$+\frac{1}{5}\frac{2}{5}$	11·2·13·5	8 13	52 24	10 30	52 07	6 30	51 39	0·1855	1·2854	1·2988
88	v:	$+\frac{5}{2}\frac{1}{4}$	10·1·11·4	4 43	54 40	6 37	54 34	3 50	54 24	0·1160	1·4059	1·4107
89	p:	-52	5271	16 06	73 21	42 51	72 42	15 24	67 00	0·9277	3·2136	3·3448
90	Φ	$-\frac{1}{2}\frac{5}{2}$	11·5·16·2	17 47	75 14	49 13	74 32	17 10	67 03	1·1596	3·6152	3·7966
91	Ψ	$-\frac{23}{8}\frac{11}{4}$	23·11·34·4	18 29	76 02	51 54	75 20	17 55	66 59	1·2755	3·8161	4·0236
92	ε:	-63	6391	19 06	76 46	54 18	76 01	18 35	66 54	1·3915	4·0170	4·2512
93	V:	$-\frac{1}{2}\frac{7}{2}$	13·7·20·2	20 10	78 00	58 22	77 15	19 43	66 39	1·6234	4·4187	4·7074
94	Ω	-74	74111	21 03	79 02	61 40	78 17	20 39	66 23	1·8554	4·8203	5·1651
95	Ω:	-85	85131	22 24	80 40	66 40	79 55	22 06	65 49	2·3192	5·6237	6·0833
96	β:	-11·8	11·8·19·1	24 47	83 33	74 55	82 54	24 37	64 26	1·7108	8·0340	8·8496
97	δ:	-14·11	14·11·25·1	26 02	85 05	78 54	84 32	25 56	63 32	5·1022	10·444	11·624
98	D:	+82	82101	10 53	78 29	42 51	78 17	10 40	74 12	0·9277	4·8203	4·9089
99	ψ:	$+\frac{5}{3}\frac{1}{6}$	10·1·11·6	4 43	43 14	4 25	43 09	3 13	43 03	0·0773	0·9373	0·9405
100	φ:	$+\frac{37}{22}\frac{2}{11}$	37·4·41·22	5 04	43 37	4 49	43 31	3 30	43 25	0·0843	0·9495	0·9532
101	ρ:	$+\frac{47}{26}\frac{1}{13}$	47·8·55·26	7 44	46 40	8 07	46 25	5 37	46 07	0·1427	1·0506	1·0603
102	χ:	$+\frac{11}{6}\frac{1}{3}$	11·2·13·6	8 13	47 16	8 47	46 58	6 01	46 38	0·1546	1·0712	1·0823
103	S	$+\frac{13}{7}\frac{5}{4}$	26·5·31·14	8 38	47 48	9 24	47 28	6 23	47 05	0·1657	1·0903	1·1028
104	τ:	$+\frac{15}{26}\frac{3}{13}$	15·3·18·8	8 57	48 12	9 52	47 51	6 39	47 25	0·1739	1·1047	1·1183
105	ω:	$+\frac{23}{12}\frac{1}{2}$	23·5·28·12	9 38	49 06	10 56	48 42	7 16	48 10	0·1933	1·1382	1·1544
106	σ:	$+\frac{11}{5}\frac{7}{10}$	22·7·29·10	13 22	54 32	17 59	53 47	10 51	52 24	0·3247	1·3658	1·4038
107	P:	$+\frac{7}{2}\frac{5}{10}$	14·5·19·1	14 42	77 39	49 13	77 15	14 21	70 53	1·1596	4·4187	4·5682
108	ℳ:	-17·5	17·5·22·1	12 31	84 39	66 40	84 32	12 28	76 24	2·3192	10·444	10·698
109	θ:	$-\frac{19}{8}\frac{13}{8}$	19·13·32·8	23 49	61 49	37 00	59 38	20 51	53 44	0·7537	1·7072	1·8662
110	⊙:	$-\frac{43}{5}$	43·40·83·1	28 48	78 16	66 40	76 40	28 09	59 05	2·3192	4·2178	4·8133
111	ℳ:	-14·5	14·5·19·1	14 42	83 45	"	83 32	14 37	74 03	"	8·8374	9·1365
112	ω:	$+\frac{5}{2}\frac{1}{2}$	5162	8 57	56 09	13 03	55 49	7 25	55 07	"	1·4729	1·4910
113	r: O	$+\frac{5}{8}\frac{5}{8}$	20·5·25·8	10 53	56 54	16 10	56 25	9 06	55 21	0·2899	1·5064	1·5340
114	η:	$+\frac{5}{2}\frac{1}{8}$	20·11·31·8	20 29	61 15	32 32	59 38	17 52	55 12	0·6378	1·7072	1·8225
115	A:	$-\frac{5}{3}\frac{1}{3}$	5161	8 57	44 49	8 47	44 28	6 17	44 08	0·1546	0·9819	0·9940
116	?B:	$+\frac{2}{5}\frac{1}{5}$	10·1·11·5	4 43	48 27	5 18	48 21	3 31	48 14	0·0927	1·1258	1·1286
117	β:	$+\frac{7}{4}\frac{1}{2}$	7294	12 13	47 37	13 03	46 58	8 59	46 13	0·2319	1·0712	1·0960
118	H	$+\frac{7}{3}\frac{2}{3}$	7293	"	55 37	17 11	55 00	10 03	53 46	0·3092	1·4283	1·4614
119	C	$+\frac{10}{10}\frac{7}{10}$	19·7·26·10	15 04	51 18	17 59	50 19	11 43	48 54	0·3247	1·2051	1·2481
120	D	$+\frac{7}{13}\frac{1}{13}$	22·10·32·13	17 47	49 26	19 38	48 03	13 25	46 20	0·3568	1·1124	1·1682

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
121	F	$-\frac{1}{5}\frac{5}{6}$	Y3·5'18·6	15° 36'	55° 09'	21° 08'	54° 08'	12° 45'	52° 14'	0·3865	1·3836	1·4366
122	A	$+\frac{8}{3}\frac{1}{3}$	8193	5 49	56 45	8 47'	56 37	4 52	56 18'	0·1546	1·5176	1·5254
123	I	$-\frac{3}{8}\frac{5}{4}$	31·Y0·41·8	13 31'	68 02	30 06'	67 28	12 31'	64 22'	0·5798	2·4102	2·4789
124	J	$-\frac{3}{5}\frac{3}{8}$	12·3'15·8	10 53'	42 37'	9 52	42 06'	7 21	41 41	0·1739	0·9038	0·9204
125	L	$-\frac{1}{7}\frac{2}{7}$	Y1·2'13·7	8 13	42 51	7 33	42 33'	5 34'	42 18'	0·1325	0·9182	0·9277
126	A	$+\frac{1}{7}\frac{5}{7}$	16·1'17·7	3 00	51 39'	3 47'	51 37	2 21'	51 33'	0·0663	1·2625	1·2642
127	B	$+\frac{1}{2}\frac{1}{5}$	12·1'Y3·5	3 57'	53 18'	5 18	53 15	3 10'	53 08	0·0928	1·3390	1·3422
128	E	$-\frac{2}{11}\frac{1}{11}$	28·Y6·44·Y1	21 03	61 58	34 00'	60 18	18 29	55 28	0·6747	1·7529	1·8782

Rothgiltigerz. Pyrargyrit.

Hexagonal. Rhomboedrisch-hemiedrisch. Hemimorph.

$$c = 0.7880 \quad \lg c = 989653 \quad \lg a_0 = 034203 \quad \lg p_0 = 972044 \quad a_0 = 2.1980 \quad p_0 = 0.5253 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	$\infty 0$	10Y0	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	11Z0	30 00	"	90 00	"	30 00	60 00	0·5773	"	"
4	σ	$\frac{2}{3}\infty$	9·8·Y7·0	28 03'	"	"	"	28 03'	61 56'	0·5329	"	"
5	η	2∞	2130	19 06'	"	"	"	19 06'	70 53'	0·3464	"	"
6	ζ	$\frac{2}{3}\infty$	5270	16 06	"	"	"	16 06	73 54	0·2887	"	"
7	ϑ	4 ∞	4150	10 53'	"	"	"	10 53'	79 06'	0·1924	"	"
8	q	$\frac{1}{2}0$	10Y2	0 00	14 43	0 00	14 43	0 00	14 43	0	0·2627	0·2627
9	π	10	10Y1	"	27 43	"	27 43	"	27 43	"	0·5253	0·5253
10	? λ	20	20Z1	"	46 25	"	46 25	"	46 25	"	1·0507	1·0507
11	? α	40	4041	"	57 36	"	57 36	"	57 36	"	1·5760	1·5760
12	ν	$-\frac{1}{8}$	Y128	30 00	6 29'	3 15'	5 37'	3 14'	5 37'	0·0569	0·0985	0·1137
13	? α'	$-\frac{1}{5}$	Y125	"	10 19	5 12	8 57'	5 08	8 55	0·0909	0·1576	0·1820
14	d'	$+\frac{1}{10}$	11Z4	"	12 49	6 29'	11 08'	6 22	11 04'	0·1137	0·1970	0·2275
15	? $f \delta$	$\pm\frac{1}{2}$	11Z2	"	24 28	12 49	21 30'	11 40'	21 01	0·2275	0·3940	0·4550
16	x'	$+\frac{5}{8}$	5·5·Y0·8	"	29 37'	15 52'	26 13	14 18'	25 21	0·2843	0·4925	0·5687
17	w'	$+\frac{7}{10}$	7·7·Y4·10	"	32 29'	17 40	28 53	15 35	27 43'	0·3185	0·5516	0·6369
18	v'	$+\frac{5}{6}$	5·5·Y0·6	"	37 10'	20 46	33 17'	17 35	31 33	0·3791	0·6567	0·7583
19	p' ? κ'	± 1	11Z1	"	42 18	24 28	38 14'	19 40	35 39	0·4546	0·7880	0·9099
20	z' ? ϱ'	$\pm\frac{3}{2}$	33Z2	"	53 46	34 18'	49 46	23 47	44 19	0·6824	1·1820	1·3649
21	φ'	-2	2Z41	"	61 12'	42 18	57 36	25 59'	49 22'	0·9099	1·5760	1·8198

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
22	k:	$+\frac{5}{2}$	5'5'10'2	30° 00	66° 16	48° 40'	63° 05	27° 14'	52° 27	1'1374	1'9700	2'2748
23	A:	$-\frac{7}{2}$	7'7'14'2	"	72 34	57 52'	70 04	28 29'	55 43	1'5924	2'7580	3'1847
24	?m:	$+\frac{4}{1}$	4481	"	74 38	61 12'	72 24	28 49'	56 37'	1'8198	3'1520	3'6397
25	E:	$-\frac{5}{1}$	5'5'10'1	"	77 36	66 16	75 45'	29 14	57 45'	2'2748	3'9400	4'5496
26	?Φ:	$-\frac{14}{1} \frac{14}{1}$	14'14'28'1	"	85 30'	81 04'	84 49	29 54	59 42	6'3703	11'032	12'741
27	h:	$-\frac{2}{3} \frac{1}{3}$	2133	19 06'	24 51'	8 37'	23 38'	7 54'	23 24'	0'1517	0'4378	0'4633
28	i:	$-\frac{5}{7} \frac{2}{7}$	5277	16 06	25 06'	7 24'	24 14'	6 45'	24 03'	0'1300	0'4503	0'4687
29	z:	$-\frac{4}{8} \frac{1}{8} \frac{1}{8}$	4155	10 53'	25 42'	5 12	25 18'	4 42	25 13	0'0910	0'4728	0'4815
30	j:	$-\frac{7}{8} \frac{1}{8}$	7188	6 35	26 22'	3 15'	26 13	2 55	26 11	0'0569	0'4925	0'4958
31	k:	$-\frac{10}{20} \frac{1}{20}$	19'1'20'20	2 32'	27 08'	1 18	27 07'	1 09'	27 07	0'0227	0'5122	0'5127
32	o:	$+\frac{1}{1} \frac{1}{9}$	19'1'20'19	"	28 21'	1 22'	28 20	1 12'	28 19'	0'0240	0'5392	0'5397
33	x:	$+\frac{1}{1} \frac{1}{10}$	10'1'11'10	4 43	28 58	2 36'	28 53	2 17	28 51'	0'0455	0'5516	0'5535
34	l:	$+\frac{1}{1} \frac{1}{7}$	7187	6 35	29 32	3 43	29 22'	3 14'	29 19'	0'0650	0'5629	0'5666
35	m:	$+\frac{1}{1} \frac{2}{11}$	11'2'13'11	8 13	30 04'	4 43'	29 49	4 06'	29 44	0'0827	0'5731	0'5790
36	v:	$+\frac{1}{1} \frac{1}{5}$	5165	8 57	30 19'	5 12	30 01'	4 30	29 55	0'0910	0'5779	0'5850
37	t:	$+\frac{1}{1} \frac{1}{4}$	4154	10 53'	31 02'	6 29'	30 35	5 35'	30 25'	0'1137	0'5910	0'6018
38	n:	$+\frac{1}{1} \frac{4}{13}$	13'4'17'13	13 00'	31 53'	7 58	31 13'	6 49'	30 58'	0'1400	0'6062	0'6221
39	g:	$+\frac{1}{1} \frac{1}{3}$	3143	13 54	32 16	8 37'	31 30	7 22	31 13	0'1517	0'6129	0'6314
40	w:	$+\frac{1}{1} \frac{2}{5}$	5275	16 06	33 16	10 19	32 13'	8 45	31 48'	0'1820	0'6304	0'6562
41	e:	$+\frac{1}{1} \frac{1}{2}$	2132	19 06'	34 48	12 49	33 17'	10 45'	32 38	0'2275	0'6567	0'6950
42	q:	$+\frac{1}{1} \frac{1}{7}$	7'4'11'7	21 03	35 53'	14 34'	34 02	12 09'	33 10'	0'2600	0'6754	0'7237
43	b:	$+\frac{1}{1} \frac{2}{3}$	3253	23 25	37 21'	16 52'	35 00'	13 57	33 50	0'3033	0'7004	0'7633
44	E:	$+\frac{7}{4} \frac{1}{1}$	7'4'11'4	21 03	51 42'	24 28	49 46	16 22'	47 05'	0'4550	1'1820	1'2665
45	F:	$+\frac{21}{1}$	2131	19 06'	54 16	"	52 43	15 24'	50 05	"	1'3134	1'3899
46	H:	$+\frac{5}{2} \frac{1}{1}$	5272	16 06	58 38	"	57 36	13 42	55 07	"	1'5760	1'6404
47	π:	$+\frac{13}{4} \frac{1}{1}$	13'4'17'4	13 00	63 41	"	63 05	11 38	60 51	"	1'9700	2'0219
48	K:	$+\frac{41}{1}$	4151	10 53'	67 26'	"	67 04'	10 03	65 04'	"	2'3640	2'4074
49	ε:	$+\frac{19}{2} \frac{1}{1}$	19'4'23'4	9 22	70 19	"	70 04	8 49	68 17	"	2'7581	2'7953
50	N:	$+\frac{11}{2} \frac{1}{1}$	11'2'13'2	8 13	72 34'	"	72 24	7 50	70 47	"	3'1520	3'1846
51	J:	$+\frac{13}{2} \frac{1}{1}$	13'2'15'2	7 03	74 54	"	74 47	6 48'	73 22	"	3'6774	3'7054
52	P:	$+\frac{71}{1}$	7181	6 35	75 51	"	75 45'	6 23	74 25'	"	3'9400	3'9662
53	Q:	$+\frac{15}{2} \frac{1}{1}$	15'2'17'2	6 10'	76 41'	"	76 37	6 00'	75 21	"	4'2027	4'2273
54	R:	$+\frac{81}{1}$	8191	5 49	77 26'	"	77 22'	5 40'	76 10'	"	4'4654	4'4885
55	ζ:	$+\frac{17}{2} \frac{1}{1}$	17'2'19'2	5 30	78 06'	"	78 03'	5 22'	76 55'	"	4'7280	4'7498
56	T:	$+\frac{10}{1} \frac{1}{1}$	10'1'11'1	4 43	79 45'	"	79 43'	4 38'	78 44'	"	5'5161	5'5348
57	v:	$+\frac{43}{4} \frac{1}{1}$	43'4'47'4	4 24	80 25'	"	80 24	4 20'	79 28'	"	5'9100	5'9275
58	?Z:	$+\frac{23}{2} \frac{1}{1}$	23'2'25'2	4 07'	81 00'	"	80 59	4 04'	80 07	"	6'3040	6'3204
59	U:	$+\frac{13}{1} \frac{1}{1}$	13'1'14'1	3 40	81 59'	"	81 58'	3 38	81 12	"	7'0920	7'1065
60	κ:	$+\frac{47}{2} \frac{1}{1}$	47'2'49'2	2 04	85 28	"	85 28	2 03'	85 01	"	12'608	12'616
61	α:	$+\frac{8}{2} \frac{2}{2}$	8'2'10'1	10 53'	43 55	10 19	43 24	7 32	42 56	0'1820	0'9456	0'9630
62	β:	$+\frac{7}{4} \frac{1}{4}$	7184	6 35	44 45'	6 29'	44 34	4 38	44 23	0'1137	0'9850	0'9916
63	?c:	$-\frac{2}{1} \frac{1}{5}$	10'1'11'5	4 43	47 54'	5 12	47 48'	3 30	47 41'	0'0910	1'1032	1'1069

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
64	n:	- $\frac{7}{2}2$	7·4'11·2	21°03	68°27'	42°18	67°04'	19°31	60°14	0·9099	2·3640	2·5331
65	f:	-62	6281	13 54	75 13	"	74 47	13 25'	69 49	"	3·6774	3·7884
66	?q:	-82	82·10·1	10 53'	78 16	"	78 03'	10 40	74 02'	"	4·7280	4·8148
67	u:	- $\frac{7}{5}\frac{1}{2}$	Y4·5'19·10	14 42'	41 52	12 49	40 55	9 45	40 12'	0·2275	0·8668	0·8961
68	r:	- $\frac{17}{7}\frac{11}{7}$	Y7·Y1·28·7	22 57	61 23'	35 33'	59 22	20 01	53 56'	0·7149	1·6886	1·8337
69	⊙:	-31	3Y41	13 54	62 10	24 28	61 27'	12 16	59 08'	0·4550	1·8387	1·8942
70	?F:	- $\frac{16}{8}\frac{4}{4}$	Y6·4·20·5	10 53'	62 33'	20 00	62 08	9 39'	60 38	0·3640	1·8912	1·9259
71	⊙:	+ $\frac{17}{8}\frac{1}{4}$	17·2'Y9·8	5 30	49 54	6 29'	49 46	4 12	49 35	0·1137	1·1820	1·1874
72	D:	+ $\frac{22}{5}\frac{11}{5}$	29·Y1·40·5	15 26	75 06'	45 01'	74 34'	14 54'	68 40'	1·0010	3·6248	3·7605
73	⊙:	+ $\frac{11}{2}\frac{5}{2}$	11·5'Y6·2	17 47	74 58	48 40'	74 15	17 09'	66 52'	1·1374	3·5460	3·7239
74	β:	+19·16	19·Y16·35·1	27 10	86 24'	82 10'	85 58	27 06'	62 37	7·2793	14·184	15·943
75	W:	+13·10	13·Y10·23·1	25 41'	84 33'	77 36	83 58	25 34	63 46'	4·5496	9·4560	10·494
76	Σ	- $\frac{13}{5}\frac{1}{5}$	Y3·Y·14·5	3 40	54 52	5 12	54 49	3 00	54 42'	0·0910	1·4184	1·4213
77	e:	-2 $\frac{1}{2}$	4Y52	10 53'	50 17	12 49	49 46	8 21'	49 03'	0·2275	1·1820	1·2037
78	γ:	- $\frac{1}{7}\frac{5}{7}$	Y1·5'16·7	17 47	46 46'	18 00	45 22'	12 51'	43 56	0·3250	1·0131	1·0640
79	t:	- $\frac{5}{4}\frac{1}{2}$	5274	16 06	39 21'	12 49	38 14'	10 08	37 32	0·2275	0·7880	0·8202
80	?A	+ $\frac{7}{5}\frac{1}{5}$	7185	6 35	38 25'	5 12	"	4 05	38 07'	0·0910	"	0·7932
81	ξ:	+ $\frac{10}{7}\frac{1}{7}$	10·Y1·Y1·7	4 43	38 20	3 43	"	2 55'	38 11	0·0650	"	0·7907
82	Γ	+ $\frac{11}{8}\frac{1}{4}$	11·2'Y3·8	8 13	38 31'	6 29'	"	5 06'	38 03.	0·1137	"	0·7962
83	E	+ $\frac{4}{3}\frac{1}{3}$	4Y53	10 53'	38 45	8 37'	"	6 47'	37 55'	0·1517	"	0·8025
84	Π	+ $\frac{1}{16}\frac{5}{8}$	Y9·Y0·29·16	19 50'	39 57	15 52'	"	12 35'	37 09'	0·2844	"	0·8377
85	Θ	+ $\frac{7}{8}\frac{5}{8}$	14·5'Y9·8	14 42'	48 14'	"	47 17'	10 55	46 11	"	1·0835	1·1202
86	C:	+2 $\frac{1}{2}$	4Y51	10 53'	50 17	12 49	49 46	8 21'	49 03'	0·2275	1·1820	1·2037
87	G	+ $\frac{1}{5}\frac{2}{5}$	11·2'Y3·5	8 13	51 52	10 19	51 35	6 27	51 07'	0·1820	1·2608	1·2739
88	v:	+ $\frac{5}{2}\frac{1}{4}$	10·Y1·Y1·4	4 43	54 08'	6 29'	54 03	3 49	53 52'	0·1137	1·3790	1·3837
89	p:	-52	5271	16 06	73 03	42 18	72 24	15 23	66 47	0·9099	3·1520	3·2807
90	Φ	- $\frac{1}{2}\frac{5}{2}$	Y1·5'16·2	17 47	74 58	48 40'	74 15	17 09'	66 52'	1·1374	3·5460	3·7239
91	Ψ	- $\frac{23}{4}\frac{11}{4}$	23·Y1·34·4	22 49'	76 10	57 35'	75 02'	22 07'	63 30'	1·5751	3·7430	4·0609
92	ε:	-63	6391	19 06'	76 31	53 46	75 45'	18 33'	66 45'	1·3649	3·9430	4·1697
93	V:	- $\frac{13}{2}\frac{7}{2}$	Y3·7·20·2	20 10'	77 47	57 52'	77 00'	19 42	66 33	1·5924	4·3340	4·6172
94	Ω	-74	7·4'11·1	21 03	78 50	61 12'	78 03'	20 38	66 17'	1·8198	4·7280	5·0661
95	Q:	-85	8·8'13·1	22 24'	80 29	66 16	79 43'	22 05	65 45	2·2748	5·5161	5·9668
96	⊙:	-11·8	Y1·8'19·1	24 47'	83 25'	74 38	82 46	24 37	64 24	3·6397	7·8800	8·6800
97	δ:	-14·Y1	Y4·Y1·25·1	26 02	84 59	78 42	84 25'	25 56	63 31	5·0045	10·244	11·401
98	D:	+82	8·2'Y0·1	10 53'	78 16	42 18	78 03'	10 40	74 02'	0·9099	4·7280	4·8148
99	ψ:	+ $\frac{5}{3}\frac{1}{6}$	10·Y1·Y1·6	4 43	42 41'	4 20	42 35'	3 11'	42 31	0·0758	0·9193	0·9225
100	φ:	+ $\frac{37}{22}\frac{2}{11}$	37·4'41·22	5 04'	43 04'	4 44	42 57'	3 28	42 52	0·0827	0·9313	0·9349
101	ϕ:	+ $\frac{47}{26}\frac{4}{13}$	47·8'55·26	7 44	46 07'	7 58	45 51'	5 34	45 35	0·1400	1·0305	1·0400
102	χ:	+ $\frac{11}{6}\frac{1}{3}$	11·2'Y3·6	8 13	46 42'	8 37'	46 25	5 58	46 05'	0·1517	1·0507	1·0616
103	S	+ $\frac{13}{7}\frac{5}{14}$	26·5'31·14	8 38'	47 15	9 14	46 55'	6 20	46 33	0·1625	1·0694	1·0817
104	τ:	+ $\frac{15}{8}\frac{3}{8}$	15·3'Y8·8	8 57	47 38'	9 41	47 17'	6 36	46 53	0·1706	1·0835	1·0968
105	ω:	+ $\frac{23}{12}\frac{5}{12}$	23·5'28·12	9 38	48 33	10 44	48 09	7 12'	47 38'	0·1896	1·1164	1·1323

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
106	σ :	$+\frac{11}{5}\frac{7}{10}$	22·7·29·10	13° 22'	54° 00'	17° 40'	53° 15'	10° 47'	51° 55'	0·3185	1·3396	1·3770
107	P:	$+\frac{7}{2}\frac{5}{10}$	14 5·19·2	14 42'	77 25	48 40'	77 00'	14 20'	70 44'	1·1374	4·3340	4·4808
108	\mathcal{N} :	$-17\frac{5}{10}$	17·5·22·1	12 31'	84 33'	66 16	84 25'	12 28	76 22	2·2748	10·244	10·493
109	θ :	$-\frac{19}{8}\frac{13}{8}$	19·13·32·8	23 49'	61 21	36 28'	59 09'	20 45'	53 24	0·7393	1·6745	1·8305
110	\mathcal{C} :	$-\frac{43}{8}\frac{5}{10}$	43·40·83·8	28 48	78 02'	66 16	76 24'	28 07'	59 00'	2·2748	4·1370	4·7212
111	\mathcal{M} :	$-14\frac{5}{10}$	14·5·19·1	14 42'	83 38	"	83 25	14 37	74 00	"	8·6680	8·9615
112	ν :	$+\frac{5}{2}\frac{1}{2}$	5 162	8 57	55 38	12 49	55 18'	7 22'	54 38	0·2275	1·4447	1·4625
113	Γ : O	$+\frac{5}{2}\frac{5}{8}$	20·5·25·8	10 53'	56 23'	15 52'	55 54'	9 03'	54 52	0·2844	1·4775	1·5046
114	η :	$+\frac{5}{2}\frac{11}{8}$	20·11·31·8	20 29	60 46'	32 01'	59 09'	17 47	54 50	0·6256	1·6746	1·7876
115	A:	$-\frac{5}{3}\frac{1}{3}$	5 163	8 57	44 16'	8 37'	43 55'	6 14	43 36	0·1517	0·9631	0·9750
116	?B:	$+\frac{2}{5}\frac{1}{5}$	10·1·11·5	4 43	47 54'	5 12	47 48'	3 30	47 41'	0·0910	1·1032	1·1070
117	β :	$+\frac{7}{4}\frac{1}{2}$	7 294	12 13	47 04	12 49	46 25	8 55	45 41'	0·2275	1·0507	1·0750
118	H	$+\frac{7}{3}\frac{2}{3}$	7 293	"	55 06	16 52'	54 29	9 59'	53 16'	0·3033	1·4009	1·4334
119	C	$+\frac{19}{10}\frac{7}{10}$	19·7·26·10	15 05	50 45	17 40	49 46	11 37'	48 24	0·3185	1·1820	1·2241
120	D	$+\frac{22}{13}\frac{10}{13}$	22·10·32·13	17 47	48 53	19 17'	47 29'	13 18	45 50'	0·3500	1·0911	1·1458
121	F	$-\frac{13}{6}\frac{5}{6}$	13·5·18·6	15 36'	54 38	20 46	53 37	12 40'	51 45'	0·3791	1·3571	1·4091
122	A	$+\frac{8}{3}\frac{1}{3}$	8 193	5 49	56 14'	8 37'	56 06'	4 50	55 48	0·1517	1·4885	1·4962
123	I	$-\frac{31}{8}\frac{5}{4}$	31·10·41·8	13 31'	67 38'	29 37'	67 04'	12 29'	64 03	0·5687	2·3640	2·4315
124	J	$-\frac{3}{2}\frac{3}{8}$	12·3·15·8	10 53'	42 04'	9 41	41 33'	7 16'	41 09	0·1706	0·8865	0·9028
125	L	$-\frac{11}{7}\frac{2}{7}$	11·2·13·7	8 13	42 18	7 24'	42 00'	5 31	41 46	0·1300	0·9006	0·9099
126	A	$+\frac{16}{7}\frac{1}{7}$	16·1·17·7	3 00	51 07	3 43	51 04'	2 20'	51 01	0·0650	1·2383	1·2400
127	B	$+\frac{12}{5}\frac{1}{5}$	12·1·13·5	3 57'	52 47	5 12	52 43	3 09'	52 36	0·0910	1·3133	1·3165
128	E	$-\frac{28}{11}\frac{16}{11}$	28·16·44·11	21 03	61 30'	33 29'	59 49	18 24	55 06'	0·6618	1·7193	1·8422

Rothkupfererz.

Regulär. Plagiedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
			010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
2	e	$\left\{ \begin{array}{l} 0\frac{1}{5} \\ 05 \\ \infty 5 \end{array} \right.$	015	"	11 18'	"	11 18'	"	11 18'	"	0·2000	0·2000
			051	"	78 41'	"	78 41'	"	78 41'	"	5·0000	5·0000
			150	11 18'	90 00	90 00	90 00	11 18'	"	0·2000	∞	∞
3	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	012	0 00	26 34	0 00	26 34	0 00	26 34	0	0·5000	0·5000
			021	"	63 26	"	63 26	"	63 26	"	2·0000	2·0000
			120	26 34	90 00	90 00	90 00	26 34	"	0·5000	∞	∞

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
4	d	01	011	0°00	45°00	0°00	45°00	0°00	45°00	0	1'0000	1'0000
		∞	110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
5	q	$\frac{1}{2}$	112	"	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
		12	121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
6	A	$\frac{3}{5}$	335	45 00	40 19	30 58	30 58	27 13'	27 13'	0'6000	0'6000	0'8485
		$1\frac{3}{5}$	353	30 58	62 46'	45 00	59 02	"	49 41	1'0000	1'6667	1'9437
7	n	$\frac{2}{3}$	223	45 00	43 19	33 41'	33 41'	29 01	29 01	0'6667	0'6667	0'9428
		$1\frac{2}{3}$	232	33 41'	60 59	45 00	56 18'	"	46 41	1'0000	1'5000	1'8028
8	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
9	v	$\frac{1}{3}$	133	18 26	46 30'	18 26	"	13 16	43 29'	0'3333	"	1'0541
		3	331	45 00	76 44	71 34	71 34	43 29'	"	3'0000	3'0000	4'2426
10	u	$\frac{1}{2}$	122	26 34	48 11'	26 34	45 00	19 28	41 48'	0'5000	1'0000	1'1180
		2	221	45 00	70 32	63 26	63 26	41 48'	"	2'0000	2'0000	2'8284
11	w	$\frac{2}{3}$	233	33 41'	50 14'	33 41'	45 00	25 14'	39 45'	0'6667	1'0000	1'2019
		$\frac{3}{2}$	332	45 00	64 45'	56 18'	56 18'	39 45'	"	1'5000	1'5000	2'1213
12	x	$\frac{1}{3}$	123	26 34	36 42	18 26	33 41'	15 30	32 18'	0'3333	0'6667	0'7453
		$\frac{2}{3}$	132	18 26	57 41'	26 34	56 18'	"	53 18	0'5000	1'5000	1'5811
		23	231	33 41'	74 30	63 26	71 34	32 18'	"	2'0000	3'0000	3'6055
13	Z	$\frac{2}{3}$	689	36 53	48 01	33 41'	41 38	26 29	36 29	0'6667	0'8889	1'1111
		$\frac{3}{2}$	698	33 41'	53 31	36 52	48 22	"	41 59	0'7500	1'1250	1'3521
		$\frac{3}{2}$	896	41 38	63 31	53 08	56 18'	36 29	"	1'3333	1'5000	2'0069

Rothnickelkies.

Hexagonal.

$$c = 1'4193 \quad \lg c = 015207 \quad \lg a_0 = 008649 \quad \lg p_0 = 997598 \quad a_0 = 1'2204 \quad p_0 = 0'9462 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	x	10	1011	"	43 25	"	43 25	"	43 25	"	0'9462	0'9462

Rothzinkerz.

Hexagonal.

$$c = 2.7846 \quad | \lg c = 0.4477 \quad | \lg a_0 = 9.79379 \quad | \lg p_0 = 0.26868 \quad | a_0 = 0.6220 \quad | p_0 = 1.8564 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	e	$\frac{1}{3}0$	1018	0 00	13 04	0 00	13 04	0 00	13 04	0	0.2320	0.2320
5	s	$\frac{1}{3}0$	1013	"	31 45	"	31 45	"	31 45	"	0.6188	0.6188
6	o	$\frac{2}{3}0$	2025	"	36 36	"	36 36	"	36 36	"	0.7426	0.7426
7	n	$\frac{1}{3}0$	1012	"	42 52	"	42 52	"	42 52	"	0.9282	0.9282
8	ω	$\frac{3}{5}0$	3035	"	48 05	"	48 05	"	48 05	"	1.1138	1.1138
9	q	$\frac{2}{3}0$	2023	"	51 03	"	51 03	"	51 03	"	1.2376	1.2376
10	?α	$\frac{4}{5}0$	4045	"	56 03	"	56 03	"	56 03	"	1.4851	1.4851
11	p	10	1011	"	61 41	"	61 41	"	61 41	"	1.8564	1.8564
12	?β	$\frac{5}{4}0$	5054	"	66 41	"	66 41	"	66 41	"	2.3204	2.3204
13	v	$\frac{9}{10}0$	8085	"	71 23	"	71 23	"	71 23	"	2.9703	2.9703
14	y	20	2021	"	74 55	"	74 55	"	74 55	"	3.7129	3.7129
15	t	$\frac{1}{4}$	1124	30 00	38 47	21 54	34 50	18 15	32 51	0.4019	0.6962	0.8039
16	h	$\frac{1}{3}$	1123	"	46 59	28 11	42 52	21 26	39 17	0.5359	0.9282	1.0718
17	f	$\frac{1}{2}$	1122	"	58 07	38 47	54 19	25 07	47 20	0.8039	1.3923	1.6077
18	d	1	1121	"	72 43	58 07	70 15	28 31	55 47	1.6077	2.7846	3.2154
19	m	$\frac{2}{3}$	2133	19 06	58 35	28 11	57 07	16 13	53 44	0.5359	1.5470	1.6372

Rutil.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.6442 \quad | \lg c = 9.80902 \quad | \lg a_0 = 0.19098 \quad | a_0 = 1.5523$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1.0000	"	"
4	k	$\frac{4}{3}$	340	36 52	"	"	"	36 52	53 08	0.7500	"	"
5	r	$\frac{3}{2}$	230	33 41	"	"	"	33 41	56 18	0.6667	"	"
6	Q	$\frac{5}{3}$	350	30 58	"	"	"	30 58	59 02	0.6000	"	"
7	h	2	120	26 34	"	"	"	26 34	63 26	0.5000	"	"
8	ψ	$\frac{4}{3}$	490	23 57	"	"	"	23 57	66 02	0.4444	"	"
9	l	3	130	18 26	"	"	"	18 26	71 34	0.3333	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
10	x	∞4	140	14° 02'	90° 00'	90° 00'	90° 00'	14° 02'	75° 58'	0° 25'00	∞	∞
11	u	∞7	170	8 08	"	"	"	8 08	81 52	0° 14'29	"	"
12	i	∞8	180	7 07'	"	"	"	7 07'	82 52'	0° 12'50	"	"
13	d	0 $\frac{5}{8}$	058	0 00	21 55'	0 00	21 55'	0 00	21 55'	0	0° 40'25	0° 40'25
14	e	01	011	"	32 47	"	32 47	"	32 47	"	0° 64'40	0° 64'40
15	v	03	031	"	62 38	"	62 38	"	62 38	"	1° 9'320	1° 9'320
16	φ	0 $\frac{9}{2}$	092	"	70 57'	"	70 57'	"	70 57'	"	2° 8'980	2° 8'980
17	w	05	051	"	72 45	"	72 45	"	72 45	"	3° 2'200	3° 2'200
18	a	$\frac{2}{7}$	227	45 00	14 35	10 25'	10 25'	10 15'	10 15'	0° 18'40	0° 18'40	0° 26'02
19	β	$\frac{1}{2}$	112	"	24 29	17 51	17 51	17 02'	17 02'	0° 3'220	0° 3'220	0° 45'54
20	δ	$\frac{2}{3}$	223	"	31 16	23 14	23 14	21 32	21 32	0° 42'93	0° 42'93	0° 60'72
21	ϵ	$\frac{3}{4}$	334	"	34 20	25 47	25 47	23 30'	23 30'	0° 48'30	0° 48'30	0° 68'31
22	s	1	111	"	42 19'	32 47	32 47	28 26	28 26	0° 64'40	0° 64'40	0° 91'08
23	μ	0 $\frac{9}{8}$	998	"	45 42	35 55'	35 55'	30 24	30 24	0° 72'45	0° 72'45	1° 02'46
24	ϱ	2	221	"	61 14	52 10'	52 10'	38 18'	38 18'	1° 28'80	1° 28'80	1° 82'15
25	ω	3	331	"	69 54	62 38	62 38	41 36'	41 36'	1° 9'320	1° 9'320	2° 7'322
26	σ	4	441	"	74 39	68 47	68 47	42 59'	42 59'	2° 57'60	2° 57'60	3° 64'30
27	n	$\frac{1}{5}$	155	11° 18'	33 18	7 20'	32 47	6 11	32 34	0° 12'88	0° 64'40	0° 65'68
28	t	$\frac{1}{3}$	133	18 26	34 10	12 07	"	10 14	32 12	0° 21'46	"	0° 67'88
29	ν	$\frac{2}{5}$	255	21 48	34 44'	14 26'	"	12 13	31 57	0° 25'76	"	0° 69'36
30	g	$\frac{1}{2}$	122	26 34	35 45'	17 51	"	15 09	31 30'	0° 3'220	"	0° 72'00
31	f	$\frac{2}{3}$	233	33 41'	37 44'	23 14	"	19 51	30 37	0° 42'93	"	0° 77'40
32	γ	$\frac{3}{9}$	899	41 38	40 45	29 47'	"	25 42	29 12	0° 57'24	"	0° 86'16
33	z	23	231	33 41'	66 42	52 10'	62 38	30 37'	49 50	1° 28'80	1° 9'320	2° 32'20
34	ζ	35	351	30 58	75 05'	62 38	72 45	29 49	55 57'	1° 9'320	3° 2'200	3° 75'52
35	τ	56	561	39 48'	78 45'	72 45	75 29'	38 53'	48 53'	3° 2'200	6° 12'40	5° 02'99
36	η	$\frac{1}{8}$	158	11 18'	22 19	4 36	21 55'	4 16'	21 51'	0° 08'05	0° 40'25	0° 41'05

Salmiak.

Regulär. Plagiedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	— 0° 00'	0° 00' 90 00	0° 00' "	0° 00' 90 00	0° 00' "	0° 00' 90 00	0 "	0 ∞	0 ∞
2	a	$\left\{ \begin{array}{l} 0\frac{1}{3} \\ 03 \\ \infty 3 \end{array} \right.$	$\left\{ \begin{array}{l} 013 \\ 031 \\ 130 \end{array} \right.$	" " 18 26	18 26 71 34 90 00	" " 90 00	18 26 71 34 90 00	" " 18 26	18 26 71 34 "	" " 0° 33'33	0° 33'33 3° 00'00 ∞	0° 33'33 3° 00'00 ∞

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
3	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011	0°00	45°00	0°00	45°00	0°00	45°00	0	1'0000	1'0000
			110	45 00	90 00	90 00	90 00	45 00	"	1'0000	∞	∞
4	k	$\left\{ \begin{array}{l} \frac{1}{2} \\ 14 \end{array} \right.$	114	"	19 28	14 02	14 02	13 38	13 38	0'2500	0'2500	0'3535
			141	14 02	76 22	45 00	75 58	"	70 32	1'0000	4'0000	4'1231
5	m	$\left\{ \begin{array}{l} \frac{1}{3} \\ 13 \end{array} \right.$	113	45 00	25 14'	18 26	18 26	17 33	17 33	0'3333	0'3333	0'4714
			131	18 26	72 27	45 00	71 34	"	64 45'	1'0000	3'0000	3'1623
6	o	$\left\{ \begin{array}{l} \frac{2}{3} \\ 1\frac{5}{2} \end{array} \right.$	225	45 00	29 30	21 48	21 48	20 22'	20 22'	0'4000	0'4000	0'5657
			252	21 48	69 37'	45 00	68 12	"	60 30	1'0000	2'5000	2'6924
7	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112	45 00	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
8	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
9	x	$\left\{ \begin{array}{l} \frac{1}{3} \\ \frac{1}{2} \\ 23 \end{array} \right.$	123	26 34	36 42	18 26	33 41'	15 30	32 18'	0'3333	0'6667	0'7453
			132	18 26	57 41'	26 34	56 18'	"	53 18	0'5000	1'5000	1'5811
			231	33 41'	74 30	63 26	71 34	32 18'	"	2'0000	3'0000	3'6055

Samarskit.

Rhombisch.

a = 0'5456	lg a = 973687	lg a ₀ = 002271	lg p ₀ = 997729	a ₀ = 1'0537	p ₀ = 0'9490
c = 0'5178	lg c = 971416	lg b ₀ = 028584	lg q ₀ = 971416	b ₀ = 1'9313	q ₀ = 0'5178

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	c	∞ 0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	e	∞	110	61 23	"	"	90 00	61 23	28 37	1'8328	∞	"
4	f	∞ 2	120	42 30	"	"	"	42 30	47 30	0'9164	"	"
5	l	10	101	90 00	43 30	43 30	0 00	43 30	0 00	0'9490	0	0'9490
6	p	1	111	61 23	47 14	"	27 22'	40 07'	20 35	"	0'5178	1'0811
7	x	23	231	50 42	67 49	62 13	57 13'	45 46'	35 54'	1'8981	1'5533	2'4527

Sapphirin.

Monoklin.

$a = 0.65$	$\lg a = 981291$	$\lg a_0 = 984443$	$\lg p_0 = 015557$	$a_0 = 0.6989$	$p_0 = 1.4308$
$c = 0.93$	$\lg c = 996848$	$\lg b_0 = 003152$	$\lg q_0 = 996115$	$b_0 = 1.0753$	$q_0 = 0.9144$
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} \begin{matrix} 79^\circ 30' \\ 180 - \beta \end{matrix}$	$\lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 999267$ $\lg \sin \mu$	$\lg e = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 926063$ $\lg \cos \mu$	$\lg \frac{p_0}{q_0} = 019442$	$h = 0.9833$	$e = 0.1822$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	b	0∞	010	0° 00	90° 00	0° 00	90° 00	0° 00	90° 00	0	∞	∞
2	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	n	∞	110	57 25	"	"	90 00	57 25	32 35	1.5646	∞	"
4	q	01	011	11 16	43 29	10 30	42 55	7 44	42 26	0.1853	0.9300	0.9483

Sarkinit.

Monoklin.

$a = 2.0017$	$\lg a = 030140$	$\lg a_0 = 012087$	$\lg p_0 = 987913$	$a_0 = 1.3209$	$p_0 = 0.7570$
$c = 1.5154$	$\lg c = 018053$	$\lg b_0 = 981947$	$\lg q_0 = 012733$	$b_0 = 0.6599$	$q_0 = 1.3407$
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} \begin{matrix} 62^\circ 13' \\ 180 - \beta \end{matrix}$	$\lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 994680$ $\lg \sin \mu$	$\lg e = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 966851$ $\lg \cos \mu$	$\lg \frac{p_0}{q_0} = 975180$	$h = 0.8847$	$e = 0.4661$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	c	0	001	90° 00	27° 47	27° 47	0° 00	27° 47	0° 00	0.5268	0	0.5268
2	a	∞0	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	m	∞	110	29 27	"	"	90 00	29 27	60 33	0.5646	∞	"
4	p	02	021	9 52	71 59	27 47	71 44	9 22	69 33	0.5268	3.0308	3.0762
5	o	-1	111	12 14	57 11	18 12	56 35	10 16	55 13	0.3288	1.5154	1.5507

Sarkolith.

Tetragonal.

$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 0.8872$	$\lg c = 994802$	$\lg a_o = 005198$	$a_o = 1.1272$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
4	h	∞2	120	26 34	"	"	"	26 34	63 26	0'5000	"	"
5	e	01	011	0 00	41 34'	0 00	41 34'	0 00	41 34'	o	0.8870	0.8870
6	f	$\frac{1}{3}$	113	45 00	22 41'	16 28	16 28	15 50	15 50	0.2956	0.2956	0.4181
7	r	1	111	"	51 26'	41 34'	41 34'	33 34	33 34	0.8849	0.8849	1.2544
8	z	3	331	"	75 07	69 24	69 24	43 06'	43 06'	2.6610	2.6610	3.7632
9	v	$\frac{1}{3}1$	133	18 26	43 04'	16 28'	41 34'	12 28'	40 23	0.2956	0.8870	0.9350
10	s	13	131	"	70 22'	41 34'	69 24	17 20	63 19'	0.8870	2.6610	2.8049

Sassolin.

Triklin.

$p_o = 0.8882$	$\lambda = 75^\circ 42$	$a = 0.5765$	$\alpha = 104^\circ 18$	$x_o = 0.0432$	$d = 0.2507$
$q_o = 0.5279$	$\mu = 87^\circ 26$	$b = 1$	$\beta = 92^\circ 33$	$y_o = 0.2470$	$\delta = 9^\circ 55$
$r_o = 1$	$\nu = 89^\circ 38$	$c = 0.5284$	$\gamma = 89^\circ 44$	$h = 0.9681$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	9°55	14°31'	2°33	14°19	2°28'	14°18	0.0446	0.2551	0.2590
2	a	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	m	∞	110	59 00	"	90 00	"	59 00	31 00	1.6645	"	"
4	t	∞∞	110	120 27	"	"	90 00	59 33	30 27	1.7008	"	"
5	y	01	011	3 11'	38 43	2 33	38 40'	1 59'	38 39	0.0446	0.8005	0.8017
6	x	01	011	171 15'	16 21'	"	16 11	2 27	16 10	"	0.2901	0.2936
7	v	1	111	50 02	51 27'	43 53'	38 53	36 50	30 09'	0.9621	0.8063	1.2553
8	r	11	111	106 27'	45 05'	"	15 52	42 47	11 34'	"	0.2843	1.0032
9	s	11	111	47 33	49 39'	40 59	38 28	34 13'	30 57'	0.8687	0.7946	1.1773
10	u	1	111	108 49	42 33	"	16 29'	39 48	12 36	"	0.2960	0.9178

Scheelit.

Tetragonal. Pyramidal-hemiedrisch.

$\frac{c}{p_0}$	$= 1.5360$	$\lg c$	$= 0.18639$	$\lg a_0$	$= 9.81361$	a_0	$= 0.6510$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	n	0∞	010	0° 00	90° 00	"	90° 00	"	90° 00	"	∞	∞
3	m	∞	110	45° 00	"	90° 00	"	45° 00	45° 00	1'0000	"	"
4	r	∞ $\frac{4}{3}$	340	36° 52	"	"	"	36° 52	53° 08	0'7500	"	"
5	q	∞2	120	26° 34	"	"	"	26° 34	63° 26	0'5000	"	"
6	d	0 $\frac{1}{3}$	015	0° 00	17° 04'	0° 00	17° 04'	0° 00	17° 04'	0	0'3072	0'3072
7	z	0 $\frac{2}{3}$	025	"	31° 34'	"	31° 34'	"	31° 34'	"	0'6144	0'6144
8	o	0 $\frac{1}{2}$	012	"	37° 31'	"	37° 31'	"	37° 31'	"	0'7680	0'7680
9	ε	0 $\frac{7}{8}$	078	"	53° 21'	"	53° 21'	"	53° 21'	"	1'3440	1'3440
10	e	01	011	"	56° 56'	"	56° 56'	"	56° 56'	"	1'5360	1'5360
11	f	$\frac{1}{4}$	114	45° 00	28° 30'	21° 00'	21° 00'	19° 43'	19° 43'	0'3840	0'3840	0'5430
12	b	$\frac{1}{3}$	113	"	35° 54'	27° 06'	27° 06'	24° 30'	24° 30'	0'5120	0'5120	0'7241
13	v	$\frac{1}{2}$	112	"	47° 22'	37° 31'	37° 31'	31° 20'	31° 20'	0'7680	0'7680	1'0861
14	p	1	111	"	65° 17'	56° 56'	56° 56'	39° 58'	39° 58'	1'5360	1'5360	2'1722
15	l	$\frac{1}{12}$ 1	1'12'12	4° 46'	57° 01'	7° 17'	"	3° 59'	56° 43'	0'1280	"	1'5413
16	k	$\frac{1}{5}$ 1	155	11° 18'	57° 26'	17° 04'	"	9° 31'	55° 44'	0'3072	"	1'5664
17	i	$\frac{1}{4}$ 1	144	14° 02'	57° 43'	21° 00'	"	11° 50'	55° 06'	0'3840	"	1'5832
18	h	$\frac{1}{3}$ 1	133	18° 26'	58° 18'	27° 06'	"	15° 36'	53° 49'	0'5120	"	1'6191
19	g	$\frac{1}{2}$ 1	122	26° 34'	59° 47'	37° 31'	"	22° 44'	50° 37'	0'7680	"	1'7173
20	δ	12	121	"	73° 46'	56° 56'	71° 58'	25° 25'	59° 10'	1'5360	3'0720	3'4345
21	s	13	131	18° 26'	78° 22'	"	77° 45'	18° 02'	68° 18'	"	4'6080	4'8572
22	t	$\frac{1}{2}$ 2	142	14° 02'	72° 28'	37° 31'	71° 58'	13° 22'	67° 41'	0'7680	3'0720	3'1665
23	w	$\frac{1}{3}$ $\frac{5}{3}$	153	11° 18'	69° 02'	27° 06'	68° 40'	10° 33'	66° 18'	0'5120	2'5600	2'6107
24	y	$\frac{1}{5}$ $\frac{3}{5}$	135	18° 26'	44° 10'	17° 04'	42° 40'	12° 44'	41° 23'	0'3072	0'9216	0'9714
25	x	$\frac{1}{6}$ $\frac{2}{3}$	146	14° 02'	46° 33'	14° 21'	45° 40'	10° 08'	44° 46'	0'2560	1'0240	1'0555

Schneebergit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	p	1	111	45° 00	54° 44	45° 00	45° 00	35° 16	35° 16	1'0000	1'0000	1'4142

Schröckingerit.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 021268; \quad \frac{p_0}{q_0} = 1.6319; \quad \frac{a}{b} = 0.6128$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	m	∞	110	58 30	"	90 00	"	58 30	31 30	1.6319	"	"

Schwefel.

Rhombisch.

a = 0.8138	lg a = 991052	lg a ₀ = 963052	lg p ₀ = 036948	a ₀ = 0.4271	p ₀ = 2.3414
c = 1.9055	lg c = 028000	lg b ₀ = 972000	lg q ₀ = 028000	b ₀ = 0.5248	q ₀ = 1.9055

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0 ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞ 0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	λ	2 ∞	210	67 51'	"	"	90 00	67 51'	22 08'	2.4576	∞	"
5	m	∞	110	50 51'	"	"	"	50 51'	39 08'	1.2288	"	"
6	k	∞ 2	120	31 34	"	"	"	31 34	58 26	0.6144	"	"
7	v	0 $\frac{1}{3}$	013	0 00	32 25'	0 00	32 25'	0 00	32 25'	0	0.6351	0.6351
8	w	0 $\frac{2}{3}$	023	"	51 47'	"	51 74'	"	51 74'	"	1.2703	1.2703
9	n	01	011	"	62 18'	"	62 18'	"	62 18'	"	1.9054	1.9054
10	θ	03	031	"	80 04'	"	80 04'	"	80 04'	"	5.7164	5.7164
11	u	$\frac{1}{3}$ 0	103	90 00	37 58'	37 58'	0 00	37 58'	0 00	0.7805	0	0.7805
12	e	10	101	"	66 52'	66 52'	"	66 52'	"	2.3414	"	2.3414
13	ψ	$\frac{1}{5}$	119	50 51'	18 32'	14 35'	11 57'	14 17'	11 35'	0.2602	0.2117	0.3354
14	ω	$\frac{1}{7}$	117	"	23 19'	18 29'	15 13'	17 53'	14 28'	0.3345	0.2722	0.4313
15	t	$\frac{1}{5}$	115	"	31 07'	25 05'	20 51'	23 38'	19 02'	0.4683	0.3811	0.6038
16	o	$\frac{1}{4}$	114	"	37 02'	30 20'	25 28'	27 51'	22 21'	0.5853	0.4763	0.7547
17	s	$\frac{1}{3}$	113	"	45 10'	37 58'	32 25'	33 22'	26 36'	0.7805	0.6351	1.0062
18	g	$\frac{3}{7}$	337	"	52 18'	45 06'	39 14'	37 51'	29 57'	1.0035	0.8166	1.2937

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
19	y	$\frac{1}{2}$	112	50° 51'	56° 28'	49° 30'	43° 37'	40° 17'	31° 45'	1'1707	0'9527	1'5094
20	f	$\frac{3}{8}$	335	"	61 06	54 33'	48 49'	42 46'	33 32'	1'4048	1'1432	1'8112
21	p	1	111	"	71 40'	66 52'	62 18'	47 25'	36 48'	2'3414	1'9055	3'0188
22	η	$\frac{5}{8}$	553	"	78 45'	75 37'	72 31'	49 31'	38 15'	3'9024	3'1758	5'0313
23	δ	2	221	"	80 35'	77 57'	75 18'	49 55'	38 31'	4'6829	3'8110	6'0376
24	γ	3	331	"	83 42'	81 54'	80 04'	50 26'	38 51'	7'0243	5'7164	9'0562
25	ε	5	551	"	86 12'	85 07'	84 00'	50 42'	39 02'	11'7070	9'5272	15'094
26	α	$1\frac{1}{3}$	313	74 39'	67 36'	66 52'	32 25'	63 10'	14 00'	2'3414	0'6351	2'4260
27	q	13	131	22 16'	80 48'	"	80 04'	21 58'	65 59'	"	5'7164	6'1773
28	F	15	151	13 48'	84 11'	"	84 00'	13 44'	75 02'	"	9'5272	9'8120
29	x	$\frac{1}{3}1$	133	22 16'	64 06'	37 58'	62 18'	19 56'	56 21'	0'7805	1'9055	2'0591
30	κ	$\frac{1}{2}1$	122	31 34'	65 54'	49 30'	"	28 33'	51 03'	1'1707	"	2'2363
31	l	$\frac{3}{4}1$	344	42 40'	68 54'	60 20'	"	39 13'	43 19'	1'7563	"	2'5914
32	r	31	311	74 39'	82 10'	81 54'	"	72 58'	15 02'	7'0243	"	7'2782
33	z	$\frac{1}{5}\frac{3}{5}$	135	22 16'	51 01'	25 05'	48 49'	17 08'	46 00'	0'4683	1'1432	1'2340
34	β	$\frac{2}{5}\frac{1}{5}$	315	74 39'	55 30'	54 33'	20 51'	52 42'	12 27'	1'4048	0'3811	1'4556

Selenblei.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
I	c	$\begin{cases} 0 \\ \infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ 90^\circ 00' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ 90^\circ 00' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ 90^\circ 00' \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$

Selensilber.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
I	c	$\begin{cases} 0 \\ \infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ 90^\circ 00' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ 90^\circ 00' \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00' \\ 90^\circ 00' \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$

Sellait.

Tetragonal.

$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 0.6596$	$\lg c = 981928$	$\lg a_o = 018072$	$a_o = 1.5161$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	m	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
3	r	$\infty \frac{3}{2}$	230	33 41'	"	"	"	33 41'	56 18'	0'6667	"	"
4	n	$\infty \frac{2}{2}$	120	26 34	"	"	"	26 34	63 26	0'5000	"	"
5	e	01	011	0 00	33 24'	0 00	33 24'	0 00	33 24'	0	0'6596	0'6596
6	f	$0 \frac{0}{2}$	065	"	38 21'	"	38 21'	"	38 21'	"	0'7915	0'7915
7	g	$0 \frac{0}{2}$	052	"	58 46	"	58 46	"	58 46	"	1'6490	1'6490
8	h	03	031	"	63 11'	"	63 11'	"	63 11'	"	1'9787	1'9787
9	s	$\frac{1}{2}$	112	45 00	25 00	18 15	18 15	17 23'	17 23'	0'3298	0'3298	0'4664
10	u	$\frac{1}{2}$	558	"	30 14'	22 24	22 24	20 51'	20 51'	0'4122	0'4122	0'5830
11	v	$\frac{3}{4}$	334	"	34 58'	26 19'	26 19'	23 55	23 55	0'4947	0'4947	0'6996
12	p	1	111	"	43 00'	33 24'	33 24'	28 50	28 50	0'6596	0'6596	0'9328
13	q	2	221	"	61 48'	52 50	52 50	38 33	38 33	1'3292	1'3292	1'8656
14	w	5	551	"	77 54	73 08	73 08	43 44'	43 44'	3'2980	3'2980	4'6639
15	α	$\frac{2}{3}1$	255	21 48	35 23'	14 47	33 24'	12 25	32 31'	0'2638	0'6596	0'7104
16	β	$\frac{1}{2}1$	122	26 34	36 24'	18 15	"	15 23'	32 03'	0'3298	"	0'7374
17	γ	$\frac{2}{3}1$	233	33 41'	38 24'	23 44	"	20 09'	31 07'	0'4397	"	0'7927
18	δ	$1 \frac{0}{4}$	494	23 57'	58 22'	33 24'	56 01'	20 14	51 05'	0'6596	1'4841	1'6240
19	ϵ	$1 \frac{7}{3}$	373	23 12	59 09	"	56 59	19 46	52 06'	"	1'5391	1'6744
20	A	$\frac{7}{2}$	792	37 52'	75 06'	66 35	71 23	36 23'	49 43	2'3080	2'9682	3'7603

Semseyit.

Monoklin.

a = 1'1442'	$\lg a = 005851$	$\lg a_o = 001509$	$\lg p_o = 998491$	$a_o = 1'0354$	$p_o = 0'9658'$
c = 1'1051'	$\lg c = 004342$	$\lg b_o = 995658$	$\lg q_o = 001926$	$b_o = 0'9049$	$q_o = 1'0453'$
$\left. \begin{matrix} \mu \\ 180 - \beta \end{matrix} \right\} 71'04$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 997584$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 951117$	$\left. \begin{matrix} \lg p_o \\ q_o \end{matrix} \right\} 996565$	$h = 0'9459$	$e = 0'3245$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	18°56	18°56	0°00	18°56	0°00	0'3430	0	0'3430
2	a	$\infty 0$	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	q	+2	221	47 11	72 54'	67 15	65 39'	44 31	40 31	2'3851'	2'2103	3'2518
4	p	+1	111	50 59	60 20	53 45'	47 51'	42 28	33 09'	1'3641	1'1051'	1'7556
5	s	+ $\frac{1}{3}$	113	61 40'	37 49'	34 21	20 13'	32 40	16 55	0'6834	0'3684	0'7763
6	t	- $\frac{1}{3}$	113	0 25'	20 13'	0 09'	"	0 09	20 13'	0'0027'	"	0'3684

Senarmontit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	p	1	111	45°00	54°44	45°00	45°00	35°16	35°16	1'0000	1'0000	1.4142

Serpierit.

Rhombisch.

a = 0'8586	lg a = 993379	lg a ₀ = 979907	lg p ₀ = 020093	a ₀ = 0'6296	p ₀ = 1'5883
c = 1'3637	lg c = 013472	lg b ₀ = 986528	lg q ₀ = 013472	b ₀ = 0'7333	q ₀ = 1'3637

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	?b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	49 21	"	90 00	"	49 21	40 39	1'1647	"	"
4	?d	0 $\frac{3}{4}$	034	0 00	45 39	0 00	45 39	0 00	45 39	0	1'0227	1'0227
5	?e	01	011	"	53 45	"	53 45	"	53 45	"	1'3637	1'3637
6	p	1	111	49 21	64 28	57 48	"	43 12	36 00	1.5883	"	2'0910

Silber.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	{ 0 0∞	{ 001 010	{ — 0°00	{ 0°00 90 00	{ " " "	{ 0°00 90 00	{ 0°00 "	{ 0°00 90 00	{ 0 "	{ 0 ∞	{ 0 ∞
2	f	{ 0 $\frac{1}{2}$ 04 ∞4	{ 014 041 140	{ " 14 02 14 02	{ 14 02 75 58 90 00	{ " "	{ 14 02 75 58 90 00	{ " "	{ 14 02 75 58 14 02	{ " "	{ 0'2500 4'0000 ∞	{ 0'2500 4'0000 ∞
3	a	{ 0 $\frac{1}{3}$ 03 ∞3	{ 013 031 130	{ 0 00 " 18 26	{ 18 26 71 34 90 00	{ 0 00 "	{ 18 26 71 34 90 00	{ 0 00 "	{ 18 26 71 34 18 26	{ 0 "	{ 0'3333 3'0000 ∞	{ 0'3333 3'0000 ∞
4	g	{ 0 $\frac{2}{3}$ 05 ∞ $\frac{2}{3}$	{ 025 052 250	{ 0 00 " 21 48	{ 21 48 68 12 90 00	{ 0 00 "	{ 21 48 68 12 90 00	{ 0 00 "	{ 21 48 68 12 21 48	{ 0 "	{ 0'4000 2'5000 ∞	{ 0'4000 2'5000 ∞
5	e	{ 0 $\frac{1}{2}$ 02 ∞2	{ 012 021 120	{ 0 00 " 26 34	{ 26 34 63 26 90 00	{ 0 00 "	{ 26 34 63 26 90 00	{ 0 00 "	{ 26 34 63 26 26 34	{ 0 "	{ 0'5000 2'0000 ∞	{ 0'5000 2'0000 ∞

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ	
6	a	$\left\{ \begin{array}{l} 0\frac{0}{7} \\ 0\frac{7}{4} \\ \infty\frac{7}{4} \end{array} \right.$	047 074 470	0°00 " 60 15' 29 44'	29°44' 60 15' 90 00	0°00 " 60 15' 90 00	29°44' 60 15' 90 00	0°00 " 60 15' 29 44'	29°44' 60 15' "	0 " 0°5714 0°5714	0°5714 1°7500 ∞	0°5714 1°7500 ∞	
		7	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011 110	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	45 00 "	0 1°0000 1°0000	1°0000 ∞ ∞
				8	m	$\left\{ \begin{array}{l} \frac{1}{3} \\ 13 \end{array} \right.$	113 131	" 25 14' 18 26	25 14' 72 27	18 26 45 00	18 26 71 34	17 33 "	17 33 64 45'
9	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112 121			45 00 26 34	35 16 65 54'	26 34 45 00	26 34 63 26	24 05' "	24 05' 54 44	0°5000 1°0000	0°5000 2°0000
		10	p	1	111	45 00 54 44	"	45 00	35 16	35 16	"	1°0000	1°4142
11	v	$\left\{ \begin{array}{l} \frac{1}{3}1 \\ 3 \end{array} \right.$	133 331	18 26 45 00	46 30' 76 44	18 26 71 34	" 71 34	13 16 43 29'	43 29' "	0°3333 3°0000	" 3°0000	1°0541 4°2426	
		12	β	$\left\{ \begin{array}{l} \frac{2}{5}1 \\ \frac{5}{2} \end{array} \right.$	255 552	21 48 45 00	47 07' 74 12'	21 48 68 12	45 00 68 12	15 47' 42 52'	42 52' "	0°4000 2°5000	1°0000 2°5000
13	w			$\left\{ \begin{array}{l} \frac{2}{3}1 \\ \frac{3}{2} \end{array} \right.$	233 332	33 41' 45 00	50 14' 64 45'	33 41' 56 18'	45 00 56 18'	25 14' 39 45'	39 45' "	0°6667 1°5000	1°0000 1°5000
		14	A	$\left\{ \begin{array}{l} \frac{1}{7}\frac{5}{7} \\ \frac{1}{5}\frac{7}{5} \\ 57 \end{array} \right.$	157 175 571	11 18' 8 08 35 32'	36 04 54 44 83 22	8 08 11 18' 78 41'	35 32 54 28 81 52	6 38 " 53 56 35 16	35 16 53 56 "	0°1429 0°2000 5°0000	0°7143 1°4000 7°0000

Silberglanz.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ	
1	c	$\left\{ \begin{array}{l} 0 \\ 0\infty \end{array} \right.$	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞	
		2	a	$\left\{ \begin{array}{l} 0\frac{1}{3} \\ 03 \\ \infty3 \end{array} \right.$	013 031 130	" 18 26 " 71 34 18 26	" 18 26 " 71 34 90 00	" 18 26 " 71 34 90 00	" 18 26 " 71 34 18 26	" 18 26 " 71 34 "	" " 0°3333 0°3333	0°3333 3°0000 ∞	0°3333 3°0000 ∞
3	e			$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty2 \end{array} \right.$	012 021 120	0 00 " 63 26 26 34	26 34 63 26 90 00	0 00 " 63 26 90 00	26 34 63 26 90 00	0 00 " 63 26 26 34	0 " 0°5000 0°5000	0°5000 2°0000 ∞	0°5000 2°0000 ∞
				4	b	$\left\{ \begin{array}{l} 0\frac{2}{3} \\ 0\frac{3}{2} \\ \infty\frac{3}{2} \end{array} \right.$	023 032 230	0 00 " 56 18' 33 41'	33 41' 56 18' 90 00	0 00 " 56 18' 90 00	33 41' 56 18' 90 00	0 00 " 56 18' 33 41'	0 " 0°6667 0°6667
5	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011 110			0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	0 1°0000 1°0000	1°0000 ∞ ∞	1°0000 ∞ ∞

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
6	m	$\left\{ \begin{array}{l} \frac{1}{3} \\ 13 \end{array} \right.$	113	45° 00	25° 14'	18° 26	18° 26	17° 33	17° 33	0'3333	0'3333	0'4714
			131	18 26	72 27	45 00	71 34	"	64 45'	1'0000	3'0000	3'1623
7	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112	45 00	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
8	σ	$\left\{ \begin{array}{l} \frac{3}{5} \\ 15 \end{array} \right.$	335	45 00	40 19	30 58	30 58	27 13'	27 13'	0'6000	0'6000	0'8485
			353	30 58	62 46'	45 00	59 02	"	49 41	1'0000	1'6667	1'9437
9	n	$\left\{ \begin{array}{l} \frac{2}{3} \\ 12 \end{array} \right.$	223	45 00	43 19	33 41'	33 41'	29 01	29 01	0'6667	0'6667	0'9428
			232	33 41'	60 59	45 00	56 18'	"	46 41	1'0000	1'5000	1'8028
10	t	$\left\{ \begin{array}{l} \frac{3}{4} \\ 12 \end{array} \right.$	334	45 00	46 41	36 52	36 52	30 58	30 58	0'7500	0'7500	1'0606
			343	36 52	59 02	45 00	53 08	"	43 19	1'0000	1'3333	1'6667
11	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
12	u	$\left\{ \begin{array}{l} \frac{1}{2} \\ 2 \end{array} \right.$	122	26 34	48 11'	26 34	"	19 28	41 48'	0'5000	"	1'1180
			221	45 00	70 32	63 26	63 26	"	41 48'	2'0000	2'0000	2'8284

Silberkies.

Rhombisch.

a = 0'5811	lga = 976418	lga ₀ = 002548	lgp ₀ = 997452	a ₀ = 1'0604	p ₀ = 0'9430
c = 0'5479	lgc = 973870	lgb ₀ = 026130	lq ₀ = 973870	b ₀ = 1'8252	q ₀ = 0'5479

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	0∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	n	3∞	310	79 02'	"	90 00	"	79 02'	10 57'	5'1634	"	"
4	m	∞	110	59 50'	"	"	"	59 50'	30 09'	1'7211	"	"
5	l	∞3	130	29 50'	"	"	"	29 50'	60 09'	0'5737	"	"
6	μ	∞12	1'12'0	8 10	"	"	"	8 10	81 50	0'1434	"	"
7	y	0 $\frac{1}{2}$	012	0 00	15 19	0 00	15 19	0 00	15 19	0	0'2739	0'2739
8	x	011	011	"	28 43	"	28 43	"	28 43	"	0'5479	0'5479
9	p	$\frac{1}{2}$	112	59 50'	28 36'	25 14'	15 19	24 27	13 55	0'4715	0'2739	0'5453
10	π	21	211	73 48	63 01	62 04	28 43	58 50'	14 23'	1'8860	0'5479	1'9640

Sillimanit.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 001323; \quad \frac{p_0}{q_0} = 1.0309; \quad \frac{a}{b} = 0.970$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	e	∞	110	45 52'	"	90 00	"	45 52'	44 07'	1.0309	"	"
3	f	$\infty \frac{3}{2}$	230	34 30	"	"	"	34 30	55 30	0.6873	"	"
4	g	$\infty 2$	120	27 16	"	"	"	27 16	62 44	0.5154	"	"

Sipyilit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1.45 \quad \lg c = 016137 \quad \lg a_0 = 983863 \quad a_0 = 0.690$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	p	1	111	45°00	64°00	55°24'	55°24'	39°27'	39°27'	1.4500	1.4500	2.0505

**Skapolith-Gruppe
Wernerit.**

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.440 \quad \lg c = 964345 \quad \lg a_0 = 035655 \quad a_0 = 2.273$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1.0000	"	"
4	f	$\infty 2$	120	26 34	"	"	"	26 34	63 26	0.5000	"	"
5	e	01	011	0 00	23 45	0 00	23 45	0 00	23 45	0	0.4400	0.4400
6	r	1	111	45 00	31 53'	23 45	"	21 56	21 56	0.4400	"	0.6222
7	w	3	331	"	61 49'	52 51	52 51	38 33'	38 33'	1.3200	1.3200	1.8667
8	z	13	131	18 26	54 17'	23 45	"	14 52'	50 23	0.4400	"	1.3914

Skleroklas.

Rhombisch.

$a = 0.9561$	$\lg a = 998050$	$\lg a_0 = 009361$	$\lg p_0 = 990639$	$a_0 = 1.2405$	$p_0 = 0.8061$
$c = 0.7707$	$\lg c = 988689$	$\lg b_0 = 011311$	$\lg q_0 = 988689$	$b_0 = 1.2975$	$q_0 = 0.7707$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y	d =tge
1	a	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	c	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	u	$\frac{3}{2}\infty$	320	57 29	"	"	90 00	57 29	32 31	1.5689	∞	"
5	z	∞	110	46 17	"	"	"	46 17	43 43	1.0459	"	"
6	s	$\frac{3}{2}\infty$	560	41 04	"	"	"	41 04	48 55	0.8716	"	"
7	v	$\frac{3}{2}\infty$	230	34 53	"	"	"	34 53	55 07	0.6973	"	"
8	y	∞2	120	27 36	"	"	"	27 36	62 23	0.5229	"	"
9	w	∞12	1.12.0	4 59	"	"	"	4 59	85 01	0.0871	"	"
10	h	$\frac{1}{2}0$	102	90 00	21 57	21 57	0 00	21 57	0 00	0.4030	0	0.4030
11	d	10	101	"	38 52	38 52	"	38 52	"	0.8061	"	0.8061
12	e	$\frac{3}{2}0$	302	"	50 24	50 24	"	50 24	"	1.2091	"	1.2091
13	f	20	201	"	58 11	58 11	"	58 11	"	1.6122	"	1.6122

Skolezit.

Monoklin.

$a = 0.9758$	$\lg a = 998936$	$\lg a_0 = 045356$	$\lg p_0 = 954644$	$a_0 = 2.8416$	$p_0 = 0.3519$
$c = 0.3434$	$\lg c = 953580$	$\lg b_0 = 046420$	$\lg q_0 = 953575$	$b_0 = 2.9120$	$q_0 = 0.3434$
$\mu = \frac{1}{180} - \beta \} 89.09$	$\lg h = \frac{1}{\lg \sin \mu} \} 999995$	$\lg e = \frac{1}{\lg \cos \mu} \} 817128$	$\lg \frac{p_0}{q_0} = 001069$	$h = 0.9999$	$e = 0.0148$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tge
1	b	0∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	n	5∞	510	78 57	"	"	90 00	78. 57	11 02	5.1246	∞	"
4	l	2∞	210	63 59	"	"	"	63 59	26 00	2.0498	"	"
5	m	∞	110	45 42	"	"	"	45 42	44 17	1.0249	"	"
6	h	$\frac{5}{4}$	470	30 21	"	"	"	30 21	59 38	0.5856	"	"
7	k	∞2	120	27 08	"	"	"	27 08	62 52	0.5124	"	"
8	d	+10	101	90 00	20 08	20 08	0 00	20 08	0 00	0.3667	0	0.3667
9	o	+1	111	46 53	26 40	"	18 57	19 08	17 52	"	0.3434	0.5024

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
10	s	+3I	311	72° 13	48° 21	46° 57	18° 57	45° 21	13° 11	1'0706	0'3434	1'1243
11	e	-1	111	44 28	25 42	18 38	"	17 41	18 01	0'3371	"	0'4812
12	q	+1 $\frac{1}{2}$	474	31 23	35 09	20 08	31 00	17 27	29 26	0'3667	0'6009	0'7040
13	p	+13	131	19 36	47 33	"	45 51	14 20	44 03	"	1'0302	1'0935
14	w	+5	551	45 56	67 57	60 36	59 47	41 46	40 08	1'7745	1'7170	2'4692
15	x	+4	441	46 00	63 10	54 53	53 57	39 56	38 18	1'4226	1'3736	1'9774
16	v	+3	331	46 06	56 03	46 57	45 51	36 42	35 07	1'0706	1'0302	1'4858
17	y	+1 $\frac{2}{5}$	12'12'5	46 12	49 58	40 40	39 29	33 33	32 00	0'8594	0'8241	1'1907
18	z	+3 $\frac{3}{2}$	332	46 29	36 48	28 29	27 15	25 45	24 21	0'5427	0'5151	0'7482
19	r	-5	551	45 28	67 47	60 11	59 47	41 17	40 29	1'7449	1'7170	2'4480
20	t	+53	531	59 52	64 01	60 36	45 51	51 01	26 50	1'7745	1'0302	2'0518
21	u	+13'11	13'11'1	50 34	80 27	77 43	75 10	49 37	38 47	4'5942	3'7774	5'9477

Skorodit.

Rhombisch.

a = 0'8680	lg a = 993852	lg a ₀ = 995571	lg p ₀ = 004429	a ₀ = 0'9031	p ₀ = 1'1074
c = 0'9612	lg c = 998281	lg b ₀ = 001719	lg q ₀ = 998281	b ₀ = 1'0404	q ₀ = 0'9612

N _o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	0 ∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	n	∞	110	49 02	"	"	90 00	49 02	40 57	1'1520	∞	"
5	k	$\infty \frac{4}{3}$	340	40 49	"	"	"	40 49	49 10	0'8640	"	"
6	d	$\infty 2$	120	29 56	"	"	"	29 56	60 03	0'5760	"	"
7	e	0 $\frac{1}{2}$	012	0 00	25 40	0 00	25 40	0 00	25 40	0	0'4806	0'4806
8	f	01	011	"	43 52	"	43 52	"	43 52	"	0'9612	0'9612
9	h	10	101	90 00	47 55	47 55	0 00	47 55	0 00	1'1073	0	1'1073
10	m	20	201	"	65 42	65 42	"	65 42	"	2'2148	"	2'2148
11	i	$\frac{1}{2}$	112	49 02	36 15	28 58	25 40	26 31	22 48	0'5537	0'4806	0'7332
12	p	1	111	"	55 42	47 55	43 52	38 36	32 47	1'1073	0'9612	1'4663
13	s	12	121	29 56	65 44	"	62 31	27 04	52 11	"	1'9224	2'2185

Skutterudit. Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ 0\infty \end{matrix} \right.$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	a	$\left\{ \begin{matrix} 0\frac{1}{3} \\ 03 \\ \infty 3 \end{matrix} \right.$	$\begin{matrix} 013 \\ 031 \\ 130 \end{matrix}$	$\begin{matrix} " \\ " \\ 18 26 \end{matrix}$	$\begin{matrix} 18 26 \\ 71 34 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ " \\ 90 00 \end{matrix}$	$\begin{matrix} 18 26 \\ 71 34 \\ 90 00 \end{matrix}$	$\begin{matrix} " \\ " \\ 18 26 \end{matrix}$	$\begin{matrix} 18 26 \\ 71 34 \\ " \end{matrix}$	$\begin{matrix} " \\ " \\ 0\cdot3333 \end{matrix}$	$\begin{matrix} 0\cdot3333 \\ 3\cdot0000 \\ \infty \end{matrix}$	$\begin{matrix} 0\cdot3333 \\ 3\cdot0000 \\ \infty \end{matrix}$
3	d	$\left\{ \begin{matrix} 01 \\ \infty \end{matrix} \right.$	$\begin{matrix} 011 \\ 110 \end{matrix}$	$\begin{matrix} 0 00 \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 45 00 \\ 90 00 \end{matrix}$	$\begin{matrix} 0 00 \\ 45 00 \end{matrix}$	$\begin{matrix} 45 00 \\ " \end{matrix}$	$\begin{matrix} 0 \\ 1\cdot0000 \end{matrix}$	$\begin{matrix} 1\cdot0000 \\ \infty \end{matrix}$	$\begin{matrix} 1\cdot0000 \\ \infty \end{matrix}$
4	q	$\left\{ \begin{matrix} \frac{1}{12} \\ \frac{1}{12} \end{matrix} \right.$	$\begin{matrix} 112 \\ 121 \end{matrix}$	$\begin{matrix} " \\ 26 34 \end{matrix}$	$\begin{matrix} 35 16 \\ 65 54 \end{matrix}$	$\begin{matrix} 26 34 \\ 45 00 \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \end{matrix}$	$\begin{matrix} 24 05 \\ " \end{matrix}$	$\begin{matrix} 24 05 \\ 54 44 \end{matrix}$	$\begin{matrix} 0\cdot5000 \\ 1\cdot0000 \end{matrix}$	$\begin{matrix} 0\cdot5000 \\ 2\cdot0000 \end{matrix}$	$\begin{matrix} 0\cdot7071 \\ 2\cdot2360 \end{matrix}$
5	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1\cdot0000	1\cdot4142
6	u	$\left\{ \begin{matrix} \frac{1}{2}1 \\ 2 \end{matrix} \right.$	$\begin{matrix} 122 \\ 221 \end{matrix}$	$\begin{matrix} 26 34 \\ 45 00 \end{matrix}$	$\begin{matrix} 48 11 \\ 70 32 \end{matrix}$	$\begin{matrix} 26 34 \\ 63 26 \end{matrix}$	$\begin{matrix} " \\ 63 26 \end{matrix}$	$\begin{matrix} 19 28 \\ 41 48 \end{matrix}$	$\begin{matrix} 41 48 \\ " \end{matrix}$	$\begin{matrix} 0\cdot5000 \\ 2\cdot0000 \end{matrix}$	$\begin{matrix} " \\ 2\cdot0000 \end{matrix}$	$\begin{matrix} 1\cdot1180 \\ 2\cdot8284 \end{matrix}$
7	w	$\left\{ \begin{matrix} \frac{1}{3}1 \\ \frac{1}{3}1 \\ \frac{1}{3}1 \end{matrix} \right.$	$\begin{matrix} 233 \\ 332 \end{matrix}$	$\begin{matrix} 33 41 \\ 45 00 \end{matrix}$	$\begin{matrix} 50 14 \\ 64 45 \end{matrix}$	$\begin{matrix} 33 41 \\ 56 18 \end{matrix}$	$\begin{matrix} 45 00 \\ 56 18 \end{matrix}$	$\begin{matrix} 25 14 \\ 39 45 \end{matrix}$	$\begin{matrix} 39 45 \\ " \end{matrix}$	$\begin{matrix} 0\cdot6667 \\ 1\cdot5000 \end{matrix}$	$\begin{matrix} 1\cdot0000 \\ 1\cdot5000 \end{matrix}$	$\begin{matrix} 1\cdot2019 \\ 2\cdot1213 \end{matrix}$
8	x	$\left\{ \begin{matrix} \frac{1}{2}1 \\ \frac{1}{2}1 \\ \frac{1}{2}1 \\ 23 \end{matrix} \right.$	$\begin{matrix} 123 \\ 132 \\ 231 \end{matrix}$	$\begin{matrix} 26 34 \\ 18 26 \\ 33 41 \end{matrix}$	$\begin{matrix} 36 42 \\ 57 41 \\ 74 30 \end{matrix}$	$\begin{matrix} 18 26 \\ 26 34 \\ 63 26 \end{matrix}$	$\begin{matrix} 33 41 \\ 56 18 \\ 71 34 \end{matrix}$	$\begin{matrix} 15 30 \\ " \\ 32 18 \end{matrix}$	$\begin{matrix} 32 18 \\ 53 18 \\ " \end{matrix}$	$\begin{matrix} 0\cdot3333 \\ 0\cdot5000 \\ 2\cdot0000 \end{matrix}$	$\begin{matrix} 0\cdot6667 \\ 1\cdot5000 \\ 3\cdot0000 \end{matrix}$	$\begin{matrix} 0\cdot7453 \\ 1\cdot5811 \\ 3\cdot6055 \end{matrix}$
9	F	$\left\{ \begin{matrix} \frac{1}{2}1 \\ \frac{1}{2}1 \\ \frac{1}{2}1 \\ \frac{1}{2}1 \end{matrix} \right.$	$\begin{matrix} 346 \\ 364 \\ 463 \end{matrix}$	$\begin{matrix} 36 52 \\ 26 34 \\ 33 41 \end{matrix}$	$\begin{matrix} 39 48 \\ 59 11 \\ 67 24 \end{matrix}$	$\begin{matrix} 26 34 \\ 36 52 \\ 53 08 \end{matrix}$	$\begin{matrix} 33 41 \\ 56 18 \\ 63 26 \end{matrix}$	$\begin{matrix} 22 35 \\ " \\ 30 48 \end{matrix}$	$\begin{matrix} 30 48 \\ 50 11 \\ " \end{matrix}$	$\begin{matrix} 0\cdot5000 \\ 0\cdot7500 \\ 1\cdot3333 \end{matrix}$	$\begin{matrix} 0\cdot6667 \\ 1\cdot5000 \\ 2\cdot0000 \end{matrix}$	$\begin{matrix} 0\cdot8333 \\ 1\cdot6770 \\ 2\cdot4037 \end{matrix}$

Soda. Monoklin.

a = 1\cdot4828	lga = 017106	lga ₀ = 002481	lgp ₀ = 997519	a ₀ = 1\cdot0588	p ₀ = 0\cdot9445
c = 1\cdot4004	lgc = 014625	lgb ₀ = 985375	lq ₀ = 007871	b ₀ = 0\cdot7141	q ₀ = 1\cdot1987
$\mu = \left. \begin{matrix} 180 \\ \beta \end{matrix} \right\} 58^\circ 52$	lgh = 993246	lge = 971352	lg $\frac{p_0}{q_0}$ = 989648	h = 0\cdot8560	e = 0\cdot5170

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	p	0	001	90°00	31°08	31°08	0°00	31°08	0°00	0·6040	0	0·6040
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	38 14	"	"	90 00	38 14	51 46	0·7878	∞	"
5	e	01	011	23 20	56 45	31 08	54 28	19 20	50 10	0·6040	1\cdot4004	1\cdot5251
6	s	-10	101	90 00	26 32	26 32	0 00	26 32	0 00	0·4994	0	0·4994
7	u	-1/2	112	4 16	35 04	3 00	35 00	2 27	34 58	0·0522	0·7002	0·7021

Sodalith.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	c	$\begin{cases} 0 \\ \infty \end{cases}$	$\begin{matrix} 001 \\ 010 \end{matrix}$	$\begin{matrix} - \\ 0^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ " \end{matrix}$	$\begin{matrix} 0^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 0 \\ " \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$	$\begin{matrix} 0 \\ \infty \end{matrix}$
2	d	$\begin{cases} 01 \\ \infty \end{cases}$	$\begin{matrix} 011 \\ 110 \end{matrix}$	$\begin{matrix} " \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} " \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ 90^\circ 00 \end{matrix}$	$\begin{matrix} " \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ " \end{matrix}$	$\begin{matrix} " \\ 1'0000 \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$	$\begin{matrix} 1'0000 \\ \infty \end{matrix}$
3	k	$\begin{cases} \frac{1}{4} \\ 14 \end{cases}$	$\begin{matrix} 114 \\ 141 \end{matrix}$	$\begin{matrix} " \\ 14^\circ 02 \end{matrix}$	$\begin{matrix} 19^\circ 28 \\ 76^\circ 22 \end{matrix}$	$\begin{matrix} 14^\circ 02 \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 14^\circ 02 \\ 75^\circ 58 \end{matrix}$	$\begin{matrix} 13^\circ 38 \\ " \end{matrix}$	$\begin{matrix} 13^\circ 38 \\ 70^\circ 32 \end{matrix}$	$\begin{matrix} 0'2500 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'2500 \\ 4'0000 \end{matrix}$	$\begin{matrix} 0'3535 \\ 4'1231 \end{matrix}$
4	q	$\begin{cases} \frac{1}{2} \\ 12 \end{cases}$	$\begin{matrix} 112 \\ 121 \end{matrix}$	$\begin{matrix} 45^\circ 00 \\ 26^\circ 34 \end{matrix}$	$\begin{matrix} 35^\circ 16 \\ 65^\circ 54 \end{matrix}$	$\begin{matrix} 26^\circ 34 \\ 45^\circ 00 \end{matrix}$	$\begin{matrix} 26^\circ 34 \\ 63^\circ 26 \end{matrix}$	$\begin{matrix} 24^\circ 05' \\ " \end{matrix}$	$\begin{matrix} 24^\circ 05' \\ 54^\circ 44 \end{matrix}$	$\begin{matrix} 0'5000 \\ 1'0000 \end{matrix}$	$\begin{matrix} 0'5000 \\ 2'0000 \end{matrix}$	$\begin{matrix} 0'7071 \\ 2'2360 \end{matrix}$
5	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142

Spangolith.

Hexagonal.

$$c = 3'0162 \quad \lg c = 047946 \quad \lg a_0 = 975910 \quad \lg p_0 = 030337 \quad a_0 = 0'5742 \quad p_0 = 2'0108 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	k	$\frac{1}{4} 0$	1014	0 00	26 41'	0 00	26 41'	0 00	26 41'	0	0'5027	0'5027
5	n	$\frac{1}{3} 0$	1013	"	33 50'	"	33 50'	"	33 50'	"	0'6703	0'6703
6	o	$\frac{1}{2} 0$	1012	"	45 09'	"	45 09'	"	45 09'	"	1'0054	1'0054
7	ϱ	$\frac{3}{4} 0$	3034	"	56 27	"	56 27	"	56 27	"	1'5081	1'5081
8	l	$\frac{2}{3} 0$	6067	"	59 52'	"	59 52'	"	59 52'	"	1'7235	1'7235
9	p	10	1011	"	63 33'	"	63 33'	"	63 33'	"	2'0108	2'0108
10	x	$\frac{3}{2} 0$	3032	"	71 39'	"	71 39'	"	71 39'	"	3'0162	3'0162
11	y	20	2021	"	76 02	"	76 02	"	76 02	"	4'0216	4'0216
12	z	30	3031	"	80 35	"	80 35	"	80 35	"	6'0324	6'0324

Speisskobalt.

Regulär.

(Mit Chloanthit vereinigt.)

Sperrylith.

Regulär. Pentagonal-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	{ 0 0 ∞	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	e	{ 0 $\frac{1}{2}$ 02 ∞ 2	012 021 120	" " 26 34	26 34 63 26 90 00	" " 90 00	26 34 63 26 90 00	" " 26 34	26 34 63 26 "	" " 0°5000	0°5000 2°0000 ∞	0°5000 2°0000 ∞
3	d	{ 01 ∞	011 110	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	45 00 "	0 1°0000	1°0000 ∞	1°0000 ∞
4	p	I	111	"	54 44	45 00	45 00	35 16	35 16	"	1°0000	1°4142
5	?A	{ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{5}$ $\frac{1}{2}$ $\frac{1}{5}$	2°5'10 2°10'5 5°10'2	21 48 11 18' 26 34	28 18 63 53 79 51'	11 18' 21 48 68 12	26 34 63 26 78 41'	10 08' " 26 07	26 07 61 42 "	0°2000 0°4000 2°5000	0°5000 2°0000 5°0000	0°5385 2°0396 5°5901

Spinell.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	{ 0 0 ∞	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	a	{ 0 $\frac{1}{3}$ 03 ∞ 3	013 031 130	" " 18 26	18 26 71 34 90 00	" " 90 00	18 26 71 34 90 00	" " 18 26	18 26 71 34 "	" " 0°3333	0°3333 3°0000 ∞	0°3333 3°0000 ∞
3	d	{ 01 ∞	011 110	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	45 00 "	0 1°0000	1°0000 ∞	1°0000 ∞
4	r	{ $\frac{1}{6}$ 16	116 161	" 9 27'	13 16 80 40	9 27' 45 00	9 27' 80 32	9 20 "	9 20 76 44	0°1667 1°0000	0°1667 6°0000	0°2357 6°0827
5	l	{ $\frac{1}{3}$ 15	115 151	45 00 11 18'	15 47' 78 54	11 18' 45 00	11 18' 78 41'	11 06 "	11 06 74 12'	0°2000 1°0000	0°2000 5°0000	0°2828 5°0989
6	m	{ $\frac{1}{3}$ 13	113 131	45 00 18 26	25 14' 72 27	18 26 45 00	18 26 71 34	17 33 "	17 33 64 45'	0°3333 1°0000	0°3333 3°0000	0°4714 3°1623
7	q	{ $\frac{1}{2}$ 12	112 121	45 00 26 34	35 16 65 54'	26 34 45 00	26 34 63 26	24 05' "	24 05' 54 44	0°5000 1°0000	0°5000 2°0000	0°7071 2°2360

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
8	n	$\left\{ \begin{array}{l} \frac{2}{3} \\ 1\frac{1}{2} \end{array} \right.$	223	45°00	43°19	33°41'	33°41'	29°01	29°01	0'6667	0'6667	0'9428
			232	33 41'	60 59	45 00	56 18'	"	46 41	1'0000	1'5000	1'8028
9	p	I	III	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
10	A	$\left\{ \begin{array}{l} I \\ II \end{array} \right.$	I'II'I	5 II'	45 07'	5 II'	"	3 40'	44 53	0'0909	"	1'0041
			II'II'I	45 00	86 19'	84 48'	84 48'	44 53	"	11'000	11'000	15'556
11	B	$\left\{ \begin{array}{l} \frac{1}{7} \\ 7 \end{array} \right.$	177	8 08	45 17'	8 08	45 00	5 46	44 42'	0'1429	1'0000	1'0101
			771	45 00	84 14	81 52	81 52	44 42'	"	7'0000	7'0000	9'8994
12	v	$\left\{ \begin{array}{l} \frac{1}{3} \\ 3 \end{array} \right.$	133	18 26	46 30'	18 26	45 00	13 16	43 29'	0'3333	1'0000	1'0541
			331	45 00	76 44	71 34	71 34	43 29'	"	3'0000	3'0000	4'2426
13	u	$\left\{ \begin{array}{l} \frac{1}{2} \\ 2 \end{array} \right.$	122	26 34	48 11'	26 34	45 00	19 28	41 48'	0'5000	1'0000	1'1180
			221	45 00	70 32	63 26	63 26	41 48'	"	2'0000	2'0000	2'8284
14	r	$\left\{ \begin{array}{l} \frac{2}{3} \\ \frac{3}{2} \end{array} \right.$	233	33 41'	50 14'	33 41'	45 00	25 14'	39 45'	0'6667	1'0000	1'2019
			332	45 00	64 45'	56 18'	56 18'	39 45'	"	1'5000	1'5000	2'1213
15	π	$\left\{ \begin{array}{l} \frac{6}{7} \\ \frac{7}{6} \end{array} \right.$	677	40 36	52 47'	40 36	45 00	31 13	37 12'	0'8572	1'0000	1'3170
			776	45 00	58 47'	49 24	49 24	37 12'	"	1'1667	1'1667	1'6499
16	z	$\left\{ \begin{array}{l} \frac{3}{5} \\ \frac{5}{3} \\ 35 \end{array} \right.$	135	18 26	32 18'	11 18'	30 58	9 44	30 28	0'2000	0'6000	0'6325
			153	11 18'	59 32	18 26	59 02	"	57 41'	0'3333	1'6667	1'6996
			351	30 58	80 16	71 34	78 41'	30 28	"	3'0000	5'0000	5'8310
17	Ω	$\left\{ \begin{array}{l} \frac{5}{7} \\ \frac{7}{5} \\ \frac{13}{5} \end{array} \right.$	5'7'13	35 32'	33 29'	21 02'	28 18	18 42'	26 41	0'3846	0'5385	0'6617
			5'13'7	21 02'	63 19	35 32'	61 42	"	56 30'	0'7143	1'8572	1'9898
			7'13'5	28 18	71 17'	54 27'	68 57'	26 41	"	1'4000	2'6000	2'9530

Spodiosit.

Rhombisch.

a = 0'8944	lg a = 995153	lg a ₀ = 975188	lg p ₀ = 024812	a ₀ = 0'5648	p ₀ = 1'7706
c = 1'5836	lg c = 019965	lg b ₀ = 980035	lg q ₀ = 019965	b ₀ = 0'6315	q ₀ = 1'5836

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	48 11'	"	"	90 00	48 11'	41 48'	1'1181	∞	"
5	e	02	021	0 00	72 28'	0 00	72 28'	0 00	72 28'	0	3'1672	3'1672
6	d	$\frac{1}{2}0$	102	90 00	41 31	41 31	0 00	41 31	0 00	0'8853	0	0'8853
7	p	I	111	48 11'	67 10	60 32'	57 44	43 23'	37 54'	1'7706	1'5836	2'3755

Spodumen.

Monoklin.

a = 1'3727	lg a = 013757	lg a ₀ = 003377	lg p ₀ = 996623	a ₀ = 1'0809	p ₀ = 0'9252
c = 1'270	lg c = 010380	lg b ₀ = 989620	lg q ₀ = 998901	b ₀ = 0'7874	q ₀ = 0'9750
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} \begin{matrix} 50^{\circ}09 \\ 180 - \beta \end{matrix}$	$lg h = \left. \begin{matrix} \\ \\ \end{matrix} \right\} \begin{matrix} 988521 \\ lg \sin \mu \\ lg \cos \mu \end{matrix}$	$lg e = \left. \begin{matrix} \\ \\ \end{matrix} \right\} \begin{matrix} 980671 \\ lg \sin \mu \\ lg \cos \mu \end{matrix}$	lg $\frac{p_0}{q_0}$ = 997722	h = 0'7677	e = 0'6408

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	b	0 ∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	a	∞ 0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	l	$\frac{3}{2}\infty$	320	54 54'	"	"	90 00	54 54'	35 05'	1'4233	∞	"
4	J	∞	110	43 30	"	"	"	43 30	46 30	0'9489	"	"
5	k	$\infty\frac{3}{2}$	230	32 19	"	"	"	32 19	57 41	0'6326	"	"
6	m	∞ 2	120	25 23	"	"	"	25 23	64 37	0'4744'	"	"
7	n	∞ 3	130	17 33	"	"	"	17 33	72 27	0'3163	"	"
8	z	∞ 5	150	10 45	"	"	"	10 45	79 15	0'1897'	"	"
9	o	0 $\frac{1}{2}$	012	52 44	46 22	39 51	32 25	35 10	25 59'	0'8346'	0'6350	1'0487
10	r	01	011	33 19	56 39	"	51 47	27 18'	44 16'	"	1'2700	1'5197
11	x	0 $\frac{3}{2}$	032	23 39'	64 19	"	62 18	21 12	55 38'	"	1'9050	2'0798
12	ε	02	021	18 11'	69 29'	"	68 30'	17 00	62 51	"	2'5400	2'6736
13	c	-10	101	90 00	20 19'	20 19'	0 00	20 19'	0 00	0'3704	0	0'3704
14	d	+1	111	58 05'	67 24	63 53	51 47	51 36	29 12'	2'0398	1'2700	2'4028
15	φ	- $\frac{1}{4}$	114	59 14	31 50	28 04'	17 37	26 57	15 39	0'5458	0'3175	0'6207
16	p	- $\frac{1}{2}$	112	20 05	34 04	13 04	32 25	11 05	31 44'	0'2321	0'6350	0'6761
17	u	- $\frac{2}{3}$	223	2 07	40 16'	1 47'	40 15	1 22	40 14'	0'0313	0'8467	0'8472
18	t	-1	111	16 16	52 55	20 19'	51 47	12 54'	49 59	0'3704	1'2700	1'3229
19	ξ	- $\frac{3}{2}$	332	27 03'	64 56'	44 13	62 18	24 20	53 47	0'9730	1'9050	2'1390
20	e	-2	221	31 48'	71 30	57 36	68 30'	29 59'	53 42	1'5755	2'5400	2'9889
21	g	-4	441	38 07'	81 12	75 55	78 52	37 36	51 01'	3'9864	5'0800	6'4573
22	s	+12	121	38 46	72 56	63 53	68 30'	36 46	48 11'	2'0398	2'5400	3'2576
23	r	+14	141	21 52'	79 39	"	78 52	21 30	65 54'	"	5'0800	5'4742
24	f	-1 $\frac{1}{2}$	212	30 15'	36 19'	20 19'	32 25	17 22	30 46'	0'3704	0'6350	0'7351
25	w	+ $\frac{1}{4}$	122	48 32	62 28	55 10	51 47	41 38'	35 37'	1'4372	1'2700	1'9179
26	z	- $\frac{2}{3}$	231	22 38	76 23	57 48'	75 17'	21 58	63 46'	1'5885'	3'8100	4'1279
27	v	+ $\frac{1}{2}$	142	29 30	71 05	55 10	68 30'	27 46	55 25'	1'4372	2'5400	2'9184
28	q	- $\frac{3}{4}$	134	29 15	47 30'	28 04'	43 36'	21 07	40 02'	0'5458	0'9525	1'0917
29	y	+ $\frac{3}{2}$	362	19 22'	76 05'	53 16	75 17'	18 47	66 18'	1'3398	3'8100	4'0387

Staurolith.

Rhombisch.

$a = 0.6942$	$\lg a = 984148$	$\lg a_0 = 985048$	$\lg p_0 = 014952$	$a_0 = 0.7087$	$p_0 = 1.4110$
$c = 0.9795$	$\lg c = 999100$	$\lg b_0 = 000900$	$\lg q_0 = 999100$	$b_0 = 1.0209$	$q_0 = 0.9795$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	a	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	c	o∞	010	0° 00	90 00	”	90 00	”	90 00	”	∞	∞
3	r	∞	110	55 14	”	90 00	”	55 14	34 46	1.4405	”	”
4	x	01	011	0 00	44 24'	0 00	44 24'	0 00	44 24'	o	0.9795	0.9795
5	m	$\frac{3}{2}0$	302	90 00	64 42'	64 42'	0 00	64 42'	0 00	2.1164	o	2.1164
6	z	I	111	55 14	59 47'	54 40'	44 24'	45 13'	29 31'	1.4110	0.9795	1.7176

Steenstrupin.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 1.11$	$\lg c = 004532$	$\lg a_0 = 019324$	$\lg p_0 = 986923$	$a_0 = 1.5604$	$p_0 = 0.740$	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	o	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	p	+I	1121	30° 00	52 02'	32 39	47 59	23 13	43 04	0.6408	1.1100	1.2817

Steinsalz.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	$\left\{ \begin{array}{l} o \\ o\infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} — \\ 0° 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ ” \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ ” \end{array} \right.$	$\left\{ \begin{array}{l} 0° 00 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} o \\ ” \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} o \\ \infty \end{array} \right.$
2	f	$\left\{ \begin{array}{l} 0\frac{1}{4} \\ 04 \\ \infty 4 \end{array} \right.$	$\left\{ \begin{array}{l} 014 \\ 041 \\ 140 \end{array} \right.$	$\left\{ \begin{array}{l} ” \\ ” \\ 14 02 \end{array} \right.$	$\left\{ \begin{array}{l} 14 02 \\ 75 58 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} ” \\ ” \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 14 02 \\ 75 58 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} ” \\ ” \\ 14 02 \end{array} \right.$	$\left\{ \begin{array}{l} 14 02 \\ 75 58 \\ ” \end{array} \right.$	$\left\{ \begin{array}{l} ” \\ ” \\ 0.2500 \end{array} \right.$	$\left\{ \begin{array}{l} 0.2500 \\ 4.0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0.2500 \\ 4.0000 \\ \infty \end{array} \right.$
3	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	$\left\{ \begin{array}{l} 012 \\ 021 \\ 120 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ ” \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ ” \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ ” \\ 26 34 \end{array} \right.$	$\left\{ \begin{array}{l} 26 34 \\ 63 26 \\ ” \end{array} \right.$	$\left\{ \begin{array}{l} o \\ ” \\ 0.5000 \end{array} \right.$	$\left\{ \begin{array}{l} 0.5000 \\ 2.0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0.5000 \\ 2.0000 \\ \infty \end{array} \right.$
4	h	$\left\{ \begin{array}{l} 0\frac{3}{5} \\ 0\frac{5}{3} \\ \infty\frac{5}{3} \end{array} \right.$	$\left\{ \begin{array}{l} 035 \\ 053 \\ 350 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ ” \\ 30 58 \end{array} \right.$	$\left\{ \begin{array}{l} 30 58 \\ 59 02 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ ” \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 30 58 \\ 59 02 \\ 90 00 \end{array} \right.$	$\left\{ \begin{array}{l} 0 00 \\ ” \\ 30 58 \end{array} \right.$	$\left\{ \begin{array}{l} 30 58 \\ 59 02 \\ ” \end{array} \right.$	$\left\{ \begin{array}{l} o \\ ” \\ 0.6000 \end{array} \right.$	$\left\{ \begin{array}{l} 0.6000 \\ 1.6667 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0.6000 \\ 1.6667 \\ \infty \end{array} \right.$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ	
5	i	$\begin{cases} 0\frac{3}{4} \\ 0\frac{4}{3} \\ \infty\frac{4}{3} \end{cases}$	034 043 340	0°00 " 36 52 36 52	36°52 53 08 90 00	0°00 " 90 00 90 00	36°52 53 08 90 00	0°00 " 36 52 36 52	36°52 53 08 "	0 " 0·7500 0·7500	0·7500 1·3333 ∞	0·7500 1·3333 ∞	
		δ	$\begin{cases} 0\frac{4}{3} \\ 0\frac{5}{4} \\ \infty\frac{5}{4} \end{cases}$	045 054 450	0 00 " 38 39 38 39	38°39 51 20 90 00	0 00 " 90 00 90 00	38°39 21 20 90 00	0 00 " 38 39 38 39	38°39 51 20 "	0 " 0·8000 0·8000	0·8000 1·2500 ∞	0·8000 1·2500 ∞
			d	$\begin{cases} 01 \\ \infty \end{cases}$	011 110	0 00 45 00	45 00 90 00	0 00 90 00	45 00 90 00	0 00 45 00	45 00 "	0 1·0000	1·0000 ∞
p	1			111	" 54 44	54 44	45 00	45 00	35 16	35 16	"	1·0000	1·4142
	w	$\begin{cases} \frac{2}{3}1 \\ \frac{3}{2} \end{cases}$		233 332	33 41 45 00	50 14 64 45	33 41 56 18	" 56 18	25 14 39 45	39 45 "	0·6667 1·5000	" 1·5000	1·2019 2·1213
		u	$\begin{cases} \frac{1}{2}1 \\ 2 \end{cases}$	122 221	26 34 45 00	48 11 70 32	26 34 63 26	45 00 63 26	19 28 41 48	41 48 "	0·5000 2·0000	1·0000 2·0000	1·1180 2·8284
x			$\begin{cases} \frac{1}{3}\frac{2}{3} \\ \frac{1}{2}\frac{3}{2} \\ 23 \end{cases}$	123 132 231	26 34 18 26 33 41	36 42 57 41 74 30	18 26 26 34 63 26	33 41 56 18 71 34	15 30 " 32 18	32 18 53 18 "	0·3333 0·5000 2·0000	0·6667 1·5000 3·0000	0·7453 1·5811 3·6055

Stercorit.

Monoklin.

a = 2·8828	lg a = 045981	lga ₀ = 018992	lg p ₀ = 981008	a ₀ = 1·5486	p ₀ = 0·6458
c = 1·8616	lg c = 026989	lgb ₀ = 973011	lg q ₀ = 026414	b ₀ = 0·5372	q ₀ = 1·8371
$\left. \begin{matrix} \mu = \\ 180 - \beta \end{matrix} \right\} 80^\circ 42$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 999425$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 920845$	$\lg \frac{p_0}{q_0} = 954594$	h = 0·9868	e = 0·1616

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	9°18	9°18	0°00	9°18	0°00	0·1637	0	0·1637
2	a	$\infty 0$	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	h	3∞	310	46 31	"	"	90 00	46 31	43 29	1·0545	∞	"
4	m	∞	110	19 22	"	"	"	19 22	70 38	0·3515	"	"
5	k	+20	201	90 00	55 49	55 49	0 00	55 49	0 00	1·4726	0	1·4726
6	r	+10	101	"	39 17	39 17	"	39 17	"	0·8181	"	0·8181
7	f	-10	101	90 00	26 08	26 08	"	26 08	"	0·4906	"	0·4906
8	x	-20	201	"	48 52	48 52	"	48 52	"	1·1450	"	1·1450
9	n	$+\frac{1}{2}$	112	27 48	46 28	26 09	42 57	19 46	39 53	0·4909	0·9308	1·0524
10	t	$-\frac{1}{2}$	112	9 57	43 23	9 17	"	6 49	42 34	0·1634	"	0·9450

Sternbergit.

Rhombisch.

$a = 0.5832$	$\lg a = 976582$	$\lg a_0 = 984201$	$\lg p_0 = 015799$	$a_0 = 0.6950$	$p_0 = 1.4388$
$c = 0.8391$	$\lg c = 992381$	$\lg b_0 = 007619$	$\lg q_0 = 992381$	$b_0 = 1.1917$	$q_0 = 0.8391$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	59 45	"	90 00	"	59 45	30 15	1.7147	"	"
4	e	02	021	0 00	59 12'	0 00	59 12'	0 00	59 12'	0	1.6781	1.6781
5	u	0.10	0.10.1	"	83 12	"	83 12	"	83 12	"	8.3910	8.3910
6	w	$\frac{1}{6}0$	106	90 00	13 29	13 29	0 00	13 29	0 00	0.2398	0	0.2398
7	s	1	111	59 45	59 01	55 12	40 00	47 47	25 35'	1.4388	0.8391	1.6656
8	v	2	221	"	73 17'	70 50	59 12'	55 49'	28 51	2.8775	1.6782	3.3311
9	d	12	121	40 36'	65 40	55 12	"	36 22'	43 46	1.4388	"	2.2105

Stolzit.

Tetragonal. Pyramidal-hemiedrisch.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1.5606$	$\lg c = 019329$	$\lg a_0 = 980671$	$a_0 = 0.6408$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1.0000	"	"
4	?Ω	$0\frac{1}{10}$	0.1.10	0 00	8 52	0 00	8 52	0 00	8 52	0	0.1561	0.1561
5	ω	$0\frac{1}{9}$	019	"	9 50	"	9 50	"	9 50	"	0.1734	0.1734
6	τ	$0\frac{1}{3}$	013	"	27 29	"	27 29	"	27 29	"	0.5202	0.5202
7	o	$0\frac{1}{2}$	012	"	37 58	"	37 58	"	37 58	"	0.7803	0.7803
8	η	$0\frac{2}{3}$	023	"	46 08	"	46 08	"	46 08	"	1.0404	1.0404
9	h	$0\frac{3}{4}$	034	"	49 29'	"	49 29'	"	49 29'	"	1.1704	1.1704
10	e	01	011	"	57 21	"	57 21	"	57 21	"	1.5606	1.5606
11	ε	02	021	"	72 14	"	72 14	"	72 14	"	3.1212	3.1212
12	v	$\frac{1}{2}$	112	45 00	47 49	37 58	37 58	31 36	31 36	0.7803	0.7803	1.1035
13	p	1	111	"	65 37'	57 21	57 21	40 06	40 06	1.5606	1.5606	2.2070
14	μ	2	221	"	77 14	72 14	72 14	43 36	43 36	3.1212	3.1212	4.4140
15	π	$\frac{1}{3}$	133	18 26	58 42'	27 29	57 21	15 40'	54 09'	0.5202	1.5606	1.6450
16	A	15	151	11 18'	82 50	57 21	82 42	11 13	76 38	1.5606	7.8030	7.9574
17	s	13	131	18 26	78 32'	"	77 56'	18 03'	68 24	"	4.6818	4.9350
18	?B	$\frac{3}{2}$	342	36 52	75 37'	66 52	72 14	35 32	50 48	2.3409	3.1212	3.9015

Strengit.

Rhombisch.

a = 0.8652	lg a = 993712	lg a ₀ = 994470	lg p ₀ = 005530	a ₀ = 0.8805	p ₀ = 1.1358
c = 0.9827	lg c = 999242	lg b ₀ = 000758	lg q ₀ = 999242	b ₀ = 1.0176	q ₀ = 0.9827

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d = tg ρ
1	b	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	100	90°00	90 00	90 00	"	90 00	"	∞	"	∞
3	k	$\frac{4}{3}\infty$	430	57 01	"	"	90 00	57 01	32 59	1.5411	∞	"
4	d	$\infty\frac{1}{2}$	120	30 01	"	"	"	30 01	59 58	0.5779	"	"
5	e	$0\frac{1}{2}$	012	0 00	26 10	0 00	26 10	0 00	26 10	0	0.4913	0.4913
6	f	$\frac{3}{2}0$	302	90 00	59 35	59 35	0 00	59 35	0 00	1.7037	0	1.7037
7	g	$\frac{5}{2}0$	805	"	61 10	61 10	"	61 10	"	1.8173	"	1.8173
8	p	1	111	49 08	56 20	48 38	44 30	39 01	33 00	1.1358	0.9827	1.5019

Stromeyerit.

Rhombisch.

a = 0.5822	lg a = 976507	lg a ₀ = 977973	lg p ₀ = 022027	a ₀ = 0.6022	p ₀ = 1.6606
c = 0.9668	lg c = 998534	lg b ₀ = 001466	lg q ₀ = 998534	b ₀ = 1.0343	q ₀ = 0.9668

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	x (Prismen) (x : y)	y	d = tg ρ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	59 47	"	90 00	"	59 47	30 12	1.7175	"	"
4	u	$0\frac{1}{2}$	012	0 00	25 48	0 00	25 48	0 00	25 48	0	0.4834	0.4834
5	e	02	021	"	62 39	"	62 39	"	62 39	"	1.9336	1.9336
6	w	$\frac{1}{4}$	114	59 47	25 39	22 33	13 35	21 58	12 35	0.4151	0.2417	0.4804
7	v	$\frac{1}{2}$	112	"	43 51	39 42	25 48	36 47	20 24	0.8303	0.4834	0.9608
8	p	1	111	"	62 30	58 56	44 02	50 03	26 30	1.6606	0.9668	1.9215

Strontianit.

Rhombisch.

a = 0.6090	lg a = 978462	lg a ₀ = 992494	lg p ₀ = 007506	a ₀ = 0.8413	p ₀ = 1.1887
c = 0.7239	lg c = 985968	lg b ₀ = 014032	lg q ₀ = 985968	b ₀ = 1.3814	q ₀ = 0.7239

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	0∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	58 39'	"	90 00	"	58 39'	31 20'	1.6420	"	"
4	e	0 $\frac{1}{2}$	012	0 00	19 54	0 00	19 54	0 00	19 54	0	0.3619	0.3619
5	δ	0 $\frac{2}{3}$	023	"	25 45'	"	25 45'	"	25 45'	"	0.4826	0.4826
6	k	01	011	"	35 54	"	35 54	"	35 54	"	0.7239	0.7239
7	l	0 $\frac{3}{2}$	032	"	47 21'	"	47 21'	"	47 21'	"	1.0858	1.0858
8	i	02	021	"	55 22	"	55 22	"	55 22	"	1.4478	1.4478
9	v	03	031	"	65 16'	"	65 16'	"	65 16'	"	2.1717	2.1717
10	z	04	041	"	70 57	"	70 57	"	70 57	"	2.8956	2.8956
11	q	06	061	"	77 02	"	77 02	"	77 02	"	4.3434	4.3434
12	ζ	08	081	"	80 12	"	80 12	"	80 12	"	5.7912	5.7912
13	χ	0.12	0.12.1	"	83 26	"	83 26	"	83 26	"	8.6868	8.6868
14	t	$\frac{1}{2}$ 0	102	90 00	30 43'	30 43'	0 00	30 43'	0 00	0.5943	0	0.5943
15	n	$\frac{1}{3}$	115	58 39'	15 33	13 22'	8 14	13 14'	8 01	0.2377	0.1448	0.2784
16	ε	$\frac{1}{3}$	113	"	24 53	21 37	13 34	21 04	12 38'	0.3962	0.2413	0.4639
17	o	$\frac{1}{2}$	112	"	34 50	30 43'	19 54	29 12	17 17	0.5943	0.3619	0.6959
18	ρ	$\frac{4}{3}$	445	"	48 04'	43 33'	30 04'	39 27'	22 46	0.9509	0.5791	1.1134
19	p	1	111	"	54 18	49 55'	35 54	43 55	24 59	1.1886	0.7239	1.3917
20	φ	$\frac{3}{2}$	332	"	64 24'	60 43	47 21'	50 22'	27 58'	1.7830	1.0858	2.0876
21	h	2	221	"	70 14'	67 11	55 22	53 29'	29 18'	2.3773	1.4478	2.7835
22	φ	3	331	"	76 32	74 20	65 16'	56 09'	30 23	3.5660	2.1717	4.1752
23	λ	4	441	"	79 49	78 07'	70 57	57 12'	30 47'	4.7546	2.8956	5.5670
24	d	6	661	"	83 10	82 01	77 02	58 00	31 05'	7.1320	4.3434	8.3504
25	ξ	8	881	"	84 52	83 59	80 12	58 17	31 12	9.5094	5.7912	11.134

Struvit.

Rhombisch. Hemimorph.

$a = 0.5481$	$\lg a = 973886$	$\lg a_0 = 994556$	$\lg p_0 = 005444$	$a_0 = 0.8822$	$p_0 = 1.1336$
$c = 0.6213$	$\lg c = 979330$	$\lg b_0 = 020670$	$\lg q_0 = 979330$	$b_0 = 1.6095$	$q_0 = 0.6213$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90°00	"	90°00	"	90°00	"	∞	∞
3	b	∞0	100	90°00	"	90°00	0°00	90°00	0°00	∞	0	"
4	k	2∞	210	74°40'	"	"	90°00	74°40'	15°19'	3.6490	∞	"
5	m	∞	110	61°16'	"	"	"	61°16'	28°43'	1.8245	"	"
6	n	∞2	120	42°22'	"	"	"	42°22'	47°37'	0.9122	"	"
7	i	∞5	150	20°03	"	"	"	20°03	69°57	0.3566	"	"
8	s	01	011	0°00	31°51	0°00	31°51	0°00	31°51	0	0.6213	0.6213
9	x	0 $\frac{2}{3}$	075	"	41°01	"	41°01	"	41°01	"	0.8698	0.8698
10	p	10	101	90°00	48°35	48°35	0°00	48°35	0°00	1.1335	0	1.1335
11	t	1	111	61°16'	52°16'	"	31°51	43°55	22°20'	"	0.6213	1.2926

Stylotyp.

Rhombisch.

$$\lg \frac{p_0}{q_0} = 002655; \frac{p_0}{q_0} = 1.0630; \frac{a}{b} = 0.941$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	m	∞	110	46°45	90°00	90°00	90°00	46°45	43°15	1.0630	∞	∞

Sulfohalit.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	{ 0 0∞	001 010	— 0°00	0°00 90°00	0°00 "	0°00 90°00	0°00 "	0°00 90°00	0 "	0 ∞	0 ∞
2	d	{ 01 ∞	011 110	" 45°00	45°00 90°00	" 90°00	45°00 90°00	" 45°00	45°00 "	" 1.0000	1.0000 ∞	1.0000 ∞
3	p	1	111	"	54°44	45°00	45°00	35°16	35°16	"	1.0000	1.4142

Sundtit.

Rhombisch.

$a = 0.6771$	$\lg a = 983065$	$\lg a_0 = 018151$	$\lg p_0 = 981849$	$a_0 = 1.5188$	$p_0 = 0.6584$
$c = 0.4458$	$\lg c = 964914$	$\lg b_0 = 035086$	$\lg q_0 = 964914$	$b_0 = 2.2432$	$q_0 = 0.4458$

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	00	010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
3	a	∞0	100	90 00	”	90 00	0 00	90 00	0 00	∞	0	”
4	n	20	210	71 18	”	”	90 00	71 18	18 42	2.9538	∞	”
5	m	00	110	55 54	”	”	”	55 54	34 06	1.4769	”	”
6	l	00	230	44 33	”	”	”	44 33	45 27	0.9846	”	”
7	g	00	250	30 34	”	”	”	30 34	59 25	0.5907	”	”
8	x	01	011	0 00	24 01	0 00	24 01	0 00	24 01	0	0.4458	0.4458
9	γ	02	021	”	41 43	”	41 43	”	41 43	”	0.8916	0.8916
10	y	03	031	”	53 13	”	53 13	”	53 13	”	1.3374	1.3374
11	h	00	102	90 00	18 13	18 13	0 00	18 13	0 00	0.3292	0	0.3292
12	f	10	101	”	33 21	33 21	”	33 21	”	0.6584	”	0.6584
13	e	00	302	”	44 38	44 38	”	44 38	”	0.9876	”	0.9876
14	d	00	601	”	75 47	75 47	”	75 47	”	3.9504	”	3.9504
15	v	00	112	55 54	21 41	18 13	12 34	17 49	11 57	0.3292	0.2229	0.3976
16	p	1	111	”	38 29	33 21	24 01	31 01	20 25	0.6584	0.4458	0.7951
17	z	00	332	”	50 01	44 38	33 46	39 23	25 26	0.9876	0.6687	1.1927
18	q	00	221	”	57 50	52 47	41 43	44 30	28 20	1.3168	0.8916	1.5903
19	r	12	121	36 26	47 56	33 21	”	26 10	36 40	0.6584	”	1.1084
20	s	21	211	71 18	54 16	52 47	24 01	50 15	15 05	1.3168	0.4458	1.3902
21	ω	00	132	26 12	36 42	18 13	33 46	15 18	32 25	0.3292	0.6687	0.7453

Svabit.

Hexagonal.

$c = 1.2372$	$\lg c = 009244$	$\lg a_0 = 014612$	$\lg p_0 = 991635$	$a_0 = 1.4000$	$p_0 = 0.8248$	(G ₁)
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N ^o .	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	1010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
3	x	10	1011	”	39 31	”	39 31	”	39 31	”	0.8248	0.8248
4	s	1	1121	30 00	55 00	35 32	51 03	24 11	45 11	0.7143	1.2372	1.4286

Svanbergit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1.2365 \quad \lg c = 0.09218 \quad \lg a_0 = 0.14638 \quad \lg p_0 = 9.91609 \quad a_0 = 1.4008 \quad p_0 = 0.8243 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	p'	+1	1121	30°00	54 59'	35 31'	51 02'	24 10'	45 11'	0.7139	1.2365	1.4277
3	φ'	-2	2241	"	70 42'	54 59'	67 59'	28 09'	54 49'	1.4277	2.4730	2.8555
4	m'	+4	4481	"	80 04'	70 42'	78 34'	29 30'	58 32'	2.8555	4.9459	5.7110
5	n'	+5	55'10'1	"	82 01'	74 21'	80 48'	29 41'	59 03'	3.5693	6.1823	7.1386

Sylvanit.

Monoklin.

$$a = 1.6339 \quad \lg a = 0.21322 \quad \lg a_0 = 0.16149 \quad \lg p_0 = 9.83851 \quad a_0 = 1.4504 \quad p_0 = 0.6895$$

$$c = 1.1265 \quad \lg c = 0.05173 \quad \lg b_0 = 9.94827 \quad \lg q_0 = 0.05172 \quad b_0 = 0.8877 \quad q_0 = 1.1265$$

$$\mu = \left\{ \begin{array}{l} 180 - \beta \\ 89.35 \end{array} \right. \quad \lg h = \left\{ \begin{array}{l} 9.99999 \\ \lg \sin \mu \end{array} \right. \quad \lg e = \left\{ \begin{array}{l} 7.86166 \\ \lg \cos \mu \end{array} \right. \quad \lg \frac{p_0}{q_0} = 9.78679 \quad h = 1 \quad e = 0.0073$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	0°25	0°25	0°00	0°25	0°00	0.0072'	0	0.0072'
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞ 0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	S	5 ∞	510	71 54'	"	"	90 00	71 54'	18 06'	3.0602	∞	"
5	h	4 ∞	410	67 47'	"	"	"	67 47'	22 13'	2.4482	"	"
6	g	3 ∞	310	61 25'	"	"	"	61 25'	28 34'	1.8361	"	"
7	f	2 ∞	210	50 45'	"	"	"	50 45'	39 15'	1.2241	"	"
8	e	∞	110	31 28'	"	"	"	31 28'	58 32'	0.6120'	"	"
9	R	∞ 2	120	17 01'	"	"	"	17 01'	72 59'	0.3060'	"	"
10	x	0 $\frac{1}{2}$	012	0 44'	29 23'	0 25'	29 23'	0 22'	29 23'	0.0072'	0.5632'	0.5633
11	z	0 $\frac{2}{3}$	023	0 33'	36 54'	"	36 54'	0 20'	36 54'	"	0.7510	0.7510
12	d	01	011	0 22'	48 24'	"	48 24'	0 16'	48 24'	"	1.1265	1.1265
13	K	02	021	0 11'	66 04'	"	66 04'	0 10'	66 04'	"	2.2530	2.2530
14	n	+20	201	90 00	54 12'	54 12'	0 00	54 12'	0 00	1.3863	0	1.3863
15	m	+10	101	"	34 52'	34 52'	"	34 52'	"	0.6968	"	0.6968
16	M	-10	101	90 00	34 18'	34 18'	"	34 18'	"	0.6822	"	0.6822
17	N	-20	201	"	53 56'	53 56'	"	53 56'	"	1.3727	"	1.3727
18	D	+2	221	31 36'	69 17'	54 12'	66 04'	29 21'	52 49'	1.3863	2.2530	2.6454
19	r	+1	111	31 44'	52 57'	34 52'	48 24'	24 49'	42 45'	0.6968	1.1265	1.3246
20	p	+ $\frac{1}{2}$	112	32 00'	33 35'	19 24'	29 23'	17 03'	27 59'	0.3520'	0.5632'	0.6642

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg}\varrho$
21	k	$-\frac{1}{2}$	112	30° 55'	33° 17'	18° 39'	29° 23'	16° 23'	28° 05'	0·3374	0·5632	0·6566
22	ξ	$-\frac{2}{3}$	223	31 04	41 14	24 20	36 54	19 53	34 23	0·4524	0·7510	0·8767
23	ϱ	-1	111	31 12	52 47	34 18	48 24	24 22	42 56	0·6822	1·1265	1·3170
24	Δ	-2	221	31 20	69 14	53 54	66 04	29 06	53 00	1·3717	2·2530	2·6378
25	α	$+\frac{1}{4}$	414	67 59'	36 56	34 52	15 44	33 51	13 00	0·6968	0·2816	0·7516
26	β	$+\frac{1}{3}$	313	61 41	38 22	"	20 35	33 07	17 07	"	0·3755	0·7916
27	γ	$+\frac{1}{3}$	212	51 07	41 50	"	29 20	31 16	24 45	"	0·5619	0·8952
28	t	$+\frac{1}{3}$	323	42 51'	45 41'	"	36 54'	29 07'	31 38'	"	0·7510	1·0245
29	s	+12	121	17 11	67 01'	"	66 04	15 47	61 35	"	2·2530	2·3587
30	τ	$-\frac{1}{3}$	323	42 15	45 25	34 18	36 54	28 37	31 49	0·6822	0·7510	1·0146
31	σ	-12	121	16 51	66 59	"	66 04	15 28	61 45	"	2·2530	2·3540
32	δ	+31	311	61 31	67 03	64 17	48 24	54 02	26 03	2·0758	1·1265	2·3618
33	I	+21	211	50 54	60 45	54 12	48 24	42 37	33 23	1·3863	"	1·7863
34	P	$+\frac{1}{2}$	122	17 21	49 43	19 24	"	13 09	46 44	0·3520	"	1·1802
35	φ	$-\frac{1}{2}$	522	56 43	64 02	59 46	"	48 44	29 33	1·7165	"	2·0531
36	θ	-23	231	22 05	74 40	53 54	73 31	21 16	63 20	1·3717	3·3795	3·6473
37	i	+32	321	42 39	71 55	64 17	66 04	40 06	44 21	2·0758	2·2530	3·0635
38	F	$+\frac{5}{2}$	542	37 32	70 36	59 59	"	35 05	48 25	1·7311	"	2·8413
39	Φ	$-\frac{5}{2}$	542	37 18	70 33	59 46	"	34 51	48 36	1·7165	"	2·8324
40	J	-32	321	42 27	71 52	64 07	"	39 54	44 31	2·0621	"	3·0536
41	i	-42	421	50 41	74 17	70 01	"	48 08	37 35	2·7506	"	3·5557
42	κ	-52	521	56 47	76 20	73 47	"	54 23	32 10	3·4402	"	4·1124
43	χ	-62	621	61 23	78 00	76 23	"	59 10	27 56	4·1298	"	4·7043
44	Γ	-72	721	64 57	79 21	78 16	"	62 55	24 36	4·8193	"	5·3200
45	π	-34	341	24 35	78 35	64 07	77 29	24 04	63 03	2·0621	4·5060	4·9551
46	y	$+\frac{1}{3}$	123	17 31	38 13	13 20	36 54	10 44	36 09	0·2371	0·7510	0·7893
47	Y	$-\frac{1}{3}$	123	16 30	38 04	12 32	"	10 05	36 15	0·2225	"	0·7838
48	μ	$+\frac{2}{3}$	213	51 12	30 56	25 02	20 35	23 37	18 47	0·4670	0·3755	0·5993
49	v	$-\frac{1}{3}$	213	50 18	30 27	24 20	"	22 57	18 35	0·4524	"	0·5879
50	ψ	$+\frac{1}{4}$	314	61 46	30 46	27 40	15 44	26 47	14 00	0·5244	0·2816	0·5953

Sylvin.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg}\varrho$
1	c	0 0∞	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
			010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
2	δ	0 $\frac{4}{3}$ 0 $\frac{5}{4}$ ∞ $\frac{5}{4}$	045	"	38 39'	"	38 39'	"	38 39'	"	0·8000	0·8000
			054	"	51 20'	"	51 20'	"	51 20'	"	1·2500	1·2500
			450	38 39'	90 00	90 00	90 00	38 39'	"	0·8000	∞	∞

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
3	s	$\left\{ \begin{array}{l} \frac{1}{7} \\ 17 \end{array} \right.$	117	45° 00	11° 25'	8° 08	8° 08	8° 03	8° 03	0'1429	0'1429	0'2020
			171	8 08	81 57	45 00	81 52	"	78 35'	1'0000	7'0000	7'0710
4	A	$\left\{ \begin{array}{l} \frac{2}{7} \\ 1\frac{1}{2} \end{array} \right.$	227	45 00	22 00	15 57	15 57	15 21'	15 21'	0'2857	0'2857	0'4041
			272	15 57	74 38'	45 00	74 03'	"	68 00	1'0000	3'5000	3'6401
5	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	112	45 00	35 16	26 34	26 34	24 05'	24 05'	0'5000	0'5000	0'7071
			121	26 34	65 54'	45 00	63 26	"	54 44	1'0000	2'0000	2'2360
6	n	$\left\{ \begin{array}{l} \frac{2}{3} \\ 1\frac{1}{2} \end{array} \right.$	223	45 00	43 19	33 41'	33 41'	29 01	29 01	0'6667	0'6667	0'9428
			232	33 41'	60 59	45 00	56 18'	"	46 41	1'0000	1'5000	1'8028
7	p	I	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
8	ψ	$\left\{ \begin{array}{l} \frac{1}{4} \frac{1}{2} \\ \frac{1}{2} 2 \\ 24 \end{array} \right.$	124	26 34	29 12'	14 02	26 34	12 36'	25 52'	0'2500	0'5000	0'5590
			142	14 02	64 07'	26 34	63 26	"	60 47'	0'5000	2'0000	2'0615
			241	26 34	77 23'	63 26	75 58	25 52'	"	2'0000	4'0000	4'4721
9	B	$\left\{ \begin{array}{l} \frac{1}{2} \frac{5}{8} \\ \frac{4}{3} \frac{8}{3} \\ \frac{5}{4} \end{array} \right.$	458	38 39'	38 40'	26 34	32 00'	22 58'	29 12'	0'5000	0'6250	0'8004
			485	26 34	60 47'	38 39'	57 59'	"	51 19'	0'8000	1'6000	1'7888
			584	32 00'	67 01'	51 20'	63 26	29 12'	"	1'2500	2'0000	2'3585

Sympleisit.

Monoklin.

a = 0'7806	lg a = 989243	lga ₀ = 005916	lg p ₀ = 994084	a ₀ = 1'1459	p ₀ = 0'8727
c = 0'6812	lg c = 983327	lgb ₀ = 016673	lg q ₀ = 981320	b ₀ = 1'4680	q ₀ = 0'6504
$\left. \begin{array}{l} \mu = \\ 180 - \beta \end{array} \right\} 72^\circ 43$	$\left. \begin{array}{l} \lg h = \\ \lg \sin \mu \end{array} \right\} 997993$	$\left. \begin{array}{l} \lg e = \\ \lg \cos \mu \end{array} \right\} 947290$	$\lg \frac{p_0}{q_0} = 012764$	h = 0'9548	e = 0'2971

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90° 00	17° 17	17° 17	0° 00	17° 17	0° 00	0'3111'	0	0'3111'
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	53 18	"	"	90 00	53 18	36 42	1'3416'	∞	"
5	r	0 $\frac{1}{3}$	013	53 53	21 04	17 17	12 47'	16 53	12 14	0'3111'	0'2270'	0'3852

Synadelphit.

Rhombisch.

$a = 0.9192$	$\lg a = 996341$	$\lg a_o = 972884$	$\lg p_o = 027116$	$a_o = 0.5356$	$p_o = 1.8671$
$c = 1.7162$	$\lg c = 023457$	$\lg b_o = 976543$	$\lg q_o = 023457$	$b_o = 0.5827$	$q_o = 1.7162$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	u	0 $\frac{3}{2}$	034	0°00	52 09'	"	52 09'	"	52 09'	"	1.2871	1.2871
3	o	01	011	"	59 46'	"	59 46'	"	59 46'	"	1.7162	1.7162
4	e	10	101	90 00	61 49'	61 49'	0 00	61 49'	0 00	1.8671	o	1.8671
5	d	1 $\frac{1}{2}$	112	47 20	51 46'	43 02	40 43	35 17	32 10	0.9335	0.8605	1.2696
6	h	3 $\frac{3}{7}$	347	39 08	51 44	38 40	44 31'	29 42'	37 31	0.8001	0.9834	1.2678

Syngenit.

Monoklin.

$a = 1.3699$	$\lg a = 013669$	$\lg a_o = 019528$	$\lg p_o = 980472$	$a_o = 1.5677$	$p_o = 0.6378$
$c = 0.8738$	$\lg c = 994141$	$\lg b_o = 005859$	$\lg q_o = 992831$	$b_o = 1.1444$	$q_o = 0.8478$
$\mu = \left. \begin{matrix} 180 - \beta \end{matrix} \right\} 76^\circ 00$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 998690$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 938368$	$\lg \frac{p_o}{q_o} = 987641$	$h = 0.9703$	$e = 0.2419$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	14°00	14°00	0°00	14°00	0°00	0.2493	o	0.2493
2	b	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	? η	8 ∞	810	80 34	"	"	90 00	80 34	9 26	6.0187	∞	"
5	? β	6 ∞	610	77 30'	"	"	"	77 30'	12 29'	4.5140	"	"
6	?1	4 ∞	410	71 37	"	"	"	71 37	18 23	3.0093	"	"
7	d	3 ∞	310	66 06	"	"	"	66 06	23 54	2.2570	"	"
8	e	2 ∞	210	56 23'	"	"	"	56 23'	33 36'	1.5046	"	"
9	? ϵ	3 ∞	650	42 04'	"	"	"	42 04'	47 55'	0.9025'	"	"
10	p	∞	110	36 57'	"	"	"	36 57'	53 02'	0.7523'	"	"
11	s	$\infty 2$	120	20 37	"	"	"	20 37	69 23	0.3761	"	"
12	q	01	011	15 55'	42 15'	14 00	41 09	10 38	40 17'	0.2493	0.8738	0.9087
13	? ϱ	3 $\frac{3}{7}$	203	90 00	34 30'	34 30'	0 00	34 30'	0 00	0.6875	o	0.6875
14	r	+10	101	"	42 12	42 12	"	42 12	"	0.9066	"	0.9066
15	k	-10	101	90 00	22 12	22 12	"	22 12	"	0.4080	"	0.4080

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
16	h	—20	201	90° 00	46° 49	46° 49	0° 00	46° 49	0° 00	1'0653	0	1'0653
17	po	+1	111	46° 03'	51° 32'	42° 12'	41° 09'	34° 19'	32° 55'	0'9066	0'8738	1'2591
18	i	+41	411	73° 07'	71° 37'	70° 50'	"	65° 14'	16° 00'	2'8786	"	3'0083
19	m	—21	211	50° 38'	54° 02'	46° 49'	"	38° 44'	30° 53'	1'0653	"	1'3779
20	n	—1	111	25° 02'	43° 57'	22° 12'	"	17° 05'	38° 58'	0'4080	"	0'9644
21	x	—2	221	31° 22'	63° 57'	46° 49'	60° 13'	27° 53'	50° 06'	1'0653	1'7476	2'0467

Tachyhydrit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 1'900$	$\lg c = 027875$	$\lg a_0 = 995981$	$\lg p_0 = 010266$	$a_0 = 0'9116$	$p_0 = 1'2666$	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	p'	+1	1121	30° 00	63° 33	47° 43'	62° 18	27° 04'	52° 02	1'0998	1'9050	2'1997

Tapiolit.

Tetragonal.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0'6464$	$\lg c = 981050$	$\lg a_0 = 018950$	$a_0 = 1'5470$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	a	0∞	010	0° 00	90° 00	"	90° 00	"	90° 00	"	∞	∞
3	m	∞	110	45° 00	"	90° 00	"	45° 00	45° 00	1'0000	"	"
4	d	01	011	0° 00	32° 52'	0° 00	32° 52'	0° 00	32° 52'	0	0'6464	0'6464
5	z	1	111	45° 00	42° 26'	32° 52'	"	28° 30'	28° 30'	0'6464	"	0'9141

Tellur.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 1'330$	$\lg c = 012385$	$\lg a_0 = 011471$	$\lg p_0 = 994776$	$a_0 = 1'3023$	$p_0 = 0'8867$	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	b	∞	1120	30° 00	90° 00	90° 00	90° 00	30° 00	60° 00	0'5773	∞	∞
3	u	30	3031	0° 00	79° 49'	0° 00	79° 49'	0° 00	79° 49'	0	5'5692	5'5692
4	rt	±1	1121	30° 00	56° 56'	37° 31'	53° 03'	24° 46'	46° 32'	0'7679	1'3300	1'5357

Tellurit.

Rhombisch.

a=0.916	lg a = 996190	lg a ₀ = 999155	lg p ₀ = 000845	a ₀ = 0.9807	p ₀ = 1.0196
c=0.934	lg c = 997035	lg b ₀ = 002965	lg q ₀ = 997035	b ₀ = 1.0707	q ₀ = 0.9340

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d =tg ρ
1	b	∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	m	2∞	210	65 23'	"	90 00	"	65 23'	24 36'	2.1834	"	"
3	r	∞	110	47 30'	"	"	"	47 30'	42 29'	1.0914	"	"
4	s	∞2	120	28 37'	"	"	"	28 37'	61 22'	0.5458	"	"
5	p	1½	212	65 23'	48 16'	45 33'	25 02	42 44	18 06'	1.0196	0.4670	1.1215

Tellursilberblende.

Hexagonal. Holoedrisch.

c = 1.0851	lg c = 003547	lg a ₀ = 020309	lg p ₀ = 985938	a ₀ = 1.5962	p ₀ = 0.7234	(G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d =tg ρ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	10T0	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	11Z0	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	h	2∞	21Z0	19 06'	"	"	"	19 06'	70 53'	0.3464	"	"
5	l	3∞	31Z0	13 54'	"	"	"	13 54'	76 06'	0.2474	"	"
6	d	½0	10T2	0 00	19 53	0 00	19 53	0 00	19 53	0	0.3617	0.3617
7	f	10	10T1	"	35 53	"	35 53	"	35 53	"	0.7234	0.7234
8	g	20	20Z1	"	55 21	"	55 21	"	55 21	"	1.4468	1.4468
9	s	30	30Z1	"	65 15'	"	65 15'	"	65 15'	"	2.1702	2.1702
10	m	1/3	11Z3	30 00	22 40	11 47'	19 53	11 06'	19 30	0.2088	0.3617	0.4177
11	z	½	11Z2	"	32 04	17 23'	28 29	15 23'	27 22'	0.3132	0.5425	0.6265
12	y	1	11Z1	"	51 24'	32 04	47 20	23 00	42 36	0.6266	1.0851	1.2530
13	x	2	22Z1	"	68 14'	51 24'	65 15'	27 40'	53 33	1.2530	2.1702	2.5060
14	i	21	21Z1	19 06'	62 25	32 04	61 03'	16 52	56 52'	0.6265	1.8085	1.9140
15	o	31	31Z1	13 54	69 01'	"	68 27	12 57'	65 00'	"	2.5319	2.6083

Tenorit.

Monoklin.

$a = 1.4902$	$lg a = 0.17325$	$lg a_o = 0.03958$	$lg p_o = 9.96042$	$a_o = 1.0954$	$p_o = 0.9129$
$c = 1.3604$	$lg c = 0.13367$	$lg b_o = 9.86633$	$lg q_o = 0.12763$	$b_o = 0.7351$	$q_o = 1.3416$
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 80.28$	$lg h = \left. \begin{matrix} \\ \end{matrix} \right\} 9.99396$	$lg e = \left. \begin{matrix} \\ \end{matrix} \right\} 9.21912$	$lg \frac{p_o}{q_o} = 9.83279$	$h = 0.9862$	$e = 0.1656$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	A	o	001	90° 00	9° 32	9° 32	0° 00	9° 32	0° 00	0.1679	o	0.1679
2	B	$\infty 0$	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	k	01	011	7 02	53 53'	9 32	53 41	5 41	53 18	0.1679	1.3604	1.3707
4	ε	-10	101	90 00	37 09	37 09	0 00	37 09	0 00	0.7577	o	0.7577
5	?x	+60	601	"	80 05	80 05	"	80 05	"	5.7220	"	5.7220
6	m	+1	111	38 48	60 11'	47 33'	53 41	32 56	42 33	1.0936	1.3604	1.7455
7	n	-1	111	39 07	57 17'	37 09	"	24 10'	47 19	0.7577	"	1.5572
8	?z	+61	611	76 37'	80 21	80 05	"	73 33'	13 11	5.7220	"	5.8815

Tetradymit.

Hexagonal. Rhomboedrlich-hemiedrisch.

$c = 3.173$	$lg c = 0.50147$	$lg a_o = 9.73709$	$lg p_o = 0.32538$	$a_o = 0.5459$	$p_o = 2.1153$	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d = $tg \varrho$
1	o	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	z	$+\frac{1}{2}$	1124	30° 00	42 29'	24 36'	52 25'	19 44'	35 48'	0.4580	0.7932	0.9160
3	r	+1	1121	"	74 44	61 22	72 30'	28 50'	56 40'	1.8319	3.1730	3.6638
4	s	-2	2241	"	82 14	74 44	81 02'	29 42'	59 06'	3.6638	6.3460	7.3277

Thenardit.

Rhombisch.

$a = 0.5977$	$\lg a = 977648$	$\lg a_0 = 967871$	$\lg p_0 = 032129$	$a_0 = 0.4772$	$p_0 = 2.0955$
$c = 1.2525$	$\lg c = 009777$	$\lg b_0 = 990223$	$\lg q_0 = 009777$	$b_0 = 0.7984$	$q_0 = 1.2525$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	a	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	o ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	l	∞	110	59 08	"	90 00	"	59 08	30 52	1.6731	"	"
4	u	$\infty 3$	130	29 09	"	"	"	29 09	60 51	0.5577	"	"
5	e	01	011	0 00	51 23'	0 00	51 23'	0 00	51 23'	o	1.2524	1.2524
6	?t	$\frac{1}{2}0$	106	90 00	19 15	19 15	0 00	19 15	0 00	0.3492	o	0.3492
7	m	$\frac{1}{2}0$	101	"	64 29'	64 29'	"	64 29'	"	2.0955	"	2.0955
8	v	$\frac{1}{3}$	113	59 08	39 08	34 26	22 39'	32 48'	18 53'	0.6985	0.4175	0.8138
9	r	1	111	"	67 43'	64 29'	51 23'	52 35'	28 20'	2.0955	1.2525	2.4413
10	s	13	131	29 09	76 55	"	75 06	28 19'	58 17'	"	3.7572	4.3021

Thermonatrit.

(Marignac.)

Rhombisch.

$a = 0.8268$	$\lg a = 991740$	$\lg a_0 = 000956$	$\lg p_0 = 999044$	$a_0 = 1.0223$	$p_0 = 0.9782$
$c = 0.8088$	$\lg c = 990784$	$\lg b_0 = 009216$	$\lg q_0 = 990784$	$b_0 = 1.2362$	$q_0 = 0.8088$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	o ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	m	∞	110	50 25	"	"	90 00	50 25	39 35	1.2094'	∞	"
5	n	$\infty 2$	120	31 10	"	"	"	31 10	58 50	0.6047'	"	"
6	e	02	021	0 00	58 16'	0 00	58 16'	0 00	58 16'	o	1.6176	1.6176
7	g	$\frac{1}{2}0$	102	90 00	26 04	26 04	0 00	26 04	0 00	0.4891	o	0.4891
8	u	$\frac{1}{2}0$	101	"	44 22	44 22	"	44 22	"	0.9782	"	0.9782
9	x	2	221	50 25	68 30	62 55'	58 16'	45 48'	36 21'	1.9564	1.6176	2.5386
10	y	13	131	21 57'	69 05	44 22	67 36	20 26'	60 02	0.9782	2.4264	2.6161
11	p	$\frac{1}{2}1$	122	31 10	43 23	26 04	38 58	20 49'	36 00	0.4891	0.8088	0.9452

Thomsenolith.

Monoklin.

$a = 0.9973$	$lga = 999883$	$lga_0 = 998460$	$lg p_0 = 001540$	$a_0 = 0.9652$	$p_0 = 1.0361$
$c = 1.0333$	$lg c = 001423$	$lgb_0 = 998577$	$lg q_0 = 001355$	$b_0 = 0.9678$	$q_0 = 1.0317$
$\mu = \left. \begin{matrix} 180 \\ 180 - \beta \end{matrix} \right\} 86^\circ 48'$	$lgh = \left. \begin{matrix} 999932 \\ lg \sin \mu \end{matrix} \right\}$	$lge = \left. \begin{matrix} 874680 \\ lg \cos \mu \end{matrix} \right\}$	$lg \frac{p_0}{q_0} = 000185$	$h = 0.9984$	$e = 0.0558$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $tg \varrho$
1	c	0	001	90° 00'	3° 12'	3° 12'	0° 00'	3° 12'	0° 00'	0.0559	0	0.0559
2	m	∞	110	45 07'	90 00	90 00	90 00	45 07'	44 52'	1.0042	∞	∞
3	t	-10	101	90 00	44 28'	44 28'	0 00	44 28'	0 00	0.9818	0	0.9818
4	x	$-\frac{3}{2}0$	302	"	56 19'	56 19'	"	56 19'	"	1.5007	"	1.5007
5	v	$+\frac{3}{2}$	331	45 38'	77 17'	72 29'	72 07'	44 13'	43 00'	3.1691	3.1000	4.4331
6	q	-1	111	43 32'	45 57'	44 28'	45 56'	34 19'	36 24'	0.9818	1.0333	1.4254
7	r	-2	321	44 20'	70 54'	63 39'	64 11'	41 20'	42 31'	3.0196	2.0666	2.8895
8	s	-3	331	44 36'	77 04'	71 53'	72 07'	43 11'	43 56'	3.0572	3.1000	4.3538

Thomsonit.

Rhombisch.

$a = 0.9932$	$lga = 999704$	$lga_0 = 999418$	$lg p_0 = 000582$	$a_0 = 0.9867$	$p_0 = 1.0135$
$c = 1.0066$	$lg c = 000286$	$lgb_0 = 999714$	$lg q_0 = 000286$	$b_0 = 0.9934$	$q_0 = 1.0066$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $tg \varrho$
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	0∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	m	∞	110	45 11'	"	"	90 00	45 11'	44 48'	1.0068	∞	"
5	y	$0\frac{1}{2}$	012	0 00	26 43	0 00	26 43	0° 00'	26 43	0	0.5033	0.5033
6	r	10	101	90 00	45 23	45 23	0 00	45 23	0 00	1.0135	0	1.0135
7	p	1	111	45 11'	55 00'	"	45 11'	35 32'	35 15'	"	1.0066	1.4284

Thorit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.6405 \quad \lg c = 980652 \quad \lg a_0 = 019348 \quad a_0 = 1.561$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	m	∞	110	45°00	90°00	90°00	90°00	45°00	45°00	1.0000	∞	∞
2	p	1	111	"	42 10	32 38	32 38	28 20	28 20	0.6405	0.6405	0.9070
3	z	13	131	18 26	63 43	"	62 30	16 28	58 17	"	1.9215	2.0254

Tiemannit.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	c	$\left\{ \begin{matrix} 0 \\ \infty \end{matrix} \right.$	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	l	$\left\{ \begin{matrix} +\frac{1}{5} \\ +15 \end{matrix} \right.$	115 151	45 00 11 18	15 47 78 54	11 18 45 00	11 18 78 41	11 06 "	11 06 74 12	0.2000 1.0000	0.2000 5.0000	0.2828 5.0989
3	κ	$\left\{ \begin{matrix} +\frac{3}{7} \\ +1\frac{2}{3} \end{matrix} \right.$	337 373	45 00 23 12	31 13 68 30	23 12 45 00	23 12 66 48	21 30 "	21 30 58 47	0.4286 1.0000	0.4286 2.3333	0.6061 2.5386
4	pp'	± 1	111	45 00	54 44	"	45 00	35 16	35 16	"	1.0000	1.4142

Titaneisen.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1.3846 \quad \lg c = 014132 \quad \lg a_0 = 009723 \quad \lg p_0 = 996523 \quad a_0 = 1.2509 \quad p_0 = 0.9231 \quad (G_2)$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	$\infty 0$	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	η	2 ∞	2130	19 06	"	"	"	19 06	70 53	0.3464	"	"
5	π	10	1011	0 00	42 42	0 00	42 42	0 00	42 42	0	0.9231	0.9231
6	λ	20	2021	"	61 33	"	61 33	"	61 33	"	1.8461	1.8461

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
7	u	50	50 $\bar{5}$ 1	0°00	77°46'	0°00	77°46'	0°00	77°46'	0	4'6153	4'6153
8	d	+ $\frac{1}{4}$	11 $\bar{2}$ 4	30 00	21 47	11 18	19 05'	10 41'	18 45'	0'1998	0'3461	0'3997
9	e	+ $\frac{2}{3}$	2245	"	32 36	17 44	28 59	15 37'	27 48'	0'3198	0'5538	0'6395
10	δ	- $\frac{1}{2}$	11 $\bar{2}$ 2	"	38 38'	21 47	34 41'	18 11	32 44	0'3997	0'6923	0'7994
11	p	+1	11 $\bar{2}$ 1	"	57 58'	38 38'	54 09'	25 05	47 14'	0'7994	1'3846	1'5988
12	φ	-2	2 $\bar{2}$ 41	"	72 38	57 58'	70 08'	28 30	55 45	1'5988	2'7692	3'1976
13	k	+ $\frac{2}{3}$	5'5'10'2	"	75 57	63 25	73 53	29 01	57 09	1'9985	3'4615	3'9970
14	\bar{E}	-5	5'5'10'1	"	82 52	75 57	81 47	29 44'	59 14'	3'9970	6'9230	7'7940
15	K:	+41	41 $\bar{5}$ 1	10 53'	76 42	38 38'	76 28	10 36	72 51	0'7994	4'1537	4'2300
16	Σ	+ $\frac{14}{5}$	14'2'16'5	6 35	70 16	17 44	70 08'	6 12	69 14'	0'3197	2'7692	2'7876

Titanit.

Monoklin.

a = 0'7547	lg a = 987777	lg a ₀ = 994631	lg p ₀ = 005369	a ₀ = 0'8837	p ₀ = 1'1316
c = 0'8540	lg c = 993146	lg b ₀ = 006854	lg q ₀ = 987022	b ₀ = 1'1709	q ₀ = 0'7417
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 60^\circ 17'$	lg h = $\left. \begin{matrix} \\ \\ \end{matrix} \right\} 993876$	lg e = $\left. \begin{matrix} \\ \\ \end{matrix} \right\} 069523$	lg $\frac{p_0}{q_0}$ = 018347	h = 0'8685	e = 0'4957

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	y	0	001	90°00	29°43	29°43	0°00	29°43	0°00	0'5707	0	0'5707
2	q	0 ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	P	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	O	$\frac{7}{2}\infty$	720	79 23'	"	"	90 00	79 23'	10 36'	5'3400	∞	"
5	o	3 ∞	310	77 40'	"	"	"	77 40'	12 19'	4'5771	"	"
6	r	∞	110	56 45'	"	"	"	56 45'	33 14'	1'5257	"	"
7	τ	$\infty 3$	130	26 57'	"	"	"	26 57'	63 02'	0'5085	"	"
8	ε	01	011	33 45'	45 46'	29 43	40 30	23 28	36 34	0'5707	0'8540	1'0272
9	s	02	021	18 28'	60 57'	"	59 39	16 05	56 01	"	1'7080	1'8009
10	β	0 $\frac{8}{3}$	083	14 04	66 55'	"	66 17'	12 55'	63 10'	"	2'2773	2'3478
11	ζ	04	041	9 29	73 53'	"	73 41'	9 06'	71 22'	"	3'4160	3'4634
12	π	+20	201	90 00	72 31'	72 31'	0 00	72 31'	0 00	3'1766	0	3'1766
13	f	+10	101	"	61 54'	61 54'	"	61 54'	"	1'8737	"	1'8737
14	a	+ $\frac{1}{2}$ 0	102	"	50 43	50 43	"	50 43	"	1'2222	"	1'2222
15	x	+ $\frac{2}{3}$ 0	205	"	47 31	47 31	"	47 31	"	1'0919	"	1'0919
16	X	- $\frac{3}{4}$ 0	304	90 00	22 07	22 07	"	22 07	"	0'4064	"	0'4064
17	v	-10	101	"	36 13	36 13	"	36 13	"	0'7322	"	0'7322
18	e	- $\frac{7}{3}$ 0	705	"	51 25	51 25	"	51 25	"	1'2533	"	1'2533

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \varrho$
19	D	+6	661	58° 35'	84° 11'	83° 12'	78° 57'	58° 06'	31° 14'	8:3886	5:1240	9:8298
20	v	+3	331	60 14	79 02	77 25	68 41	58 27	29 10	4:4796	2:5620	5:1606
21	η	+2	221	61 44	74 30	72 31	59 39	58 04	27 09	3:1767	1:7080	3:6068
22	n	+1	111	65 30	64 06	61 54	40 30	54 56	21 54	1:8737	0:8540	2:0591
23	z	+ $\frac{1}{2}$	112	70 45	52 19	50 43	23 07	48 20	15 08	1:2222	0:4270	1:2947
24	k	+ $\frac{1}{4}$	114	76 36	42 40	41 52	12 03	41 14	9 02	0:8965	0:2135	0:9215
25	a	+ $\frac{1}{5}$	115	78 23	40 19	39 44	9 41	39 20	7 29	0:8313	0:1708	0:8487
26	l	- $\frac{1}{2}$	112	10 42	23 29	4 37	23 07	4 15	23 03	0:0807	0:4270	0:4346
27	Γ	- $\frac{3}{5}$	335	22 22	28 59	11 55	27 08	10 38	26 37	0:2109	0:5124	0:5541
28	Θ	- $\frac{5}{8}$	558	24 31	30 24	13 41	28 05	12 07	27 25	0:2435	0:5337	0:5867
29	Σ	- $\frac{3}{8}$	223	27 37	32 43	16 35	29 39	14 31	28 37	0:2979	0:5693	0:6426
30	A	- $\frac{7}{10}$	77:10	29 43	34 32	18 50	30 52	16 19	29 30	0:3413	0:5978	0:6884
31	Π	- $\frac{3}{4}$	334	32 24	37 11	22 07	32 38	18 53	30 41	0:4064	0:6390	0:7586
32	Q	- $\frac{4}{5}$	445	34 37	39 42	25 15	34 20	21 16	31 48	0:4716	0:6832	0:8302
33	t	-1	111	40 36	48 22	36 12	40 30	29 06	34 34	0:7322	0:8540	1:1249
34	ξ	- $\frac{3}{2}$	332	47 12	62 03	54 08	52 01	40 24	36 53	1:3834	1:2810	1:8854
35	w	-2	221	49 59	69 22	63 50	59 39	45 48	36 59	2:0354	1:7080	2:6569
36	u	+ $1\frac{1}{2}$	212	77 10	62 30	61 54	23 07	59 52	11 22	1:8737	0:4270	1:9218
37	B	+ $1\frac{3}{4}$	232	55 38	66 13	"	52 01	49 04	31 06	"	1:2810	2:2698
38	d	+13	131	36 11	72 31	"	68 41	34 16	50 20	"	2:5620	3:1741
39	e	+15	151	23 41	77 54	"	76 49	23 08	63 33	"	4:2700	4:6630
40	ψ	+ $\frac{1}{10}I$	1:10:10	39 23	47 51	35 02	40 30	28 03	34 58	0:7010	0:8540	1:1049
41	A	+ $\frac{1}{2}I$	122	55 03	56 09	50 43	"	42 54	28 24	1:2222	"	1:4910
42	Ψ	+ $\frac{7}{6}I$	766	67 47	66 07	64 26	"	57 50	20 04	2:0910	"	2:3112
43	U	- $\frac{2}{3}I$	233	19 14	42 08	16 35	"	12 46	39 18	0:2979	"	0:9045
44	γ	-21	211	67 14	65 37	63 50	"	57 08	20 38	2:0354	"	2:2071
45	ω	-24	241	30 47	75 53	"	73 41	29 45	56 25	"	3:4160	3:9764
46	N	+ $\frac{5}{2}$	152	29 47	67 52	50 42	64 54	27 24	53 30	1:2222	2:1350	2:4601
47	Z	+ $\frac{7}{4}$	274	39 16	62 37	"	56 13	34 12	43 25	"	1:4945	1:9307
48	χ	+ $\frac{1}{2}\frac{3}{2}$	132	43 39	60 32	"	52 01	36 57	39 03	"	1:2810	1:7706
49	p	+ $\frac{1}{2}\frac{1}{4}$	214	80 05	51 08	"	12 03	50 05	7 42	"	0:2135	1:2408
50	L	+ $\frac{1}{2}\frac{1}{6}$	316	83 21	50 54	"	8 06	50 26	5 09	"	0:1423	1:2305
51	M	- $\frac{1}{2}\frac{3}{2}$	132	3 36	52 05	4 37	52 01	2 50	51 56	0:0807	1:2810	1:2835
52	φ	- $\frac{1}{4}$	182	1 21	73 41	"	73 41	1 18	73 38	"	3:4160	3:4170
53	μ	+ $\frac{1}{8}\frac{1}{2}$	148	59 48	40 19	36 16	23 07	34 00	19 00	0:7336	0:4270	0:8488
54	κ	+ $\frac{1}{4}\frac{1}{2}$	124	64 32	44 48	41 52	"	39 30	17 38	0:8965	"	0:9930
55	σ	+ $\frac{7}{6}\frac{1}{2}$	736	78 27	64 53	64 26	"	62 31	10 26	2:0910	"	2:1341
56	δ	+ $\frac{1}{4}\frac{1}{2}$	524	79 01	65 57	65 33	"	63 41	10 01	2:1995	"	2:2405
57	i	- $\frac{3}{2}\frac{1}{2}$	312	72 51	55 22	54 08	"	51 50	14 02	1:3837	"	1:4480
58	h	+ $\frac{1}{3}\frac{7}{4}$	173	26 46	65 52	45 08	63 21	24 16	54 34	1:0051	1:9881	2:2319
59	ϑ	+ $\frac{1}{4}\frac{3}{8}$	238	70 20	43 35	41 52	17 45	40 29	13 25	0:8965	0:3202	0:9520
60	Y	+ $\frac{1}{8}\frac{1}{8}$	1:17:8	22 00	62 56	36 16	61 08	19 30	55 39	0:7336	1:8147	1:9574

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = tge
61	C	$-\frac{2}{3}\frac{4}{3}$	243	14° 39'	49° 39'	16° 35'	48° 42'	11° 07'	47° 30'	0'2979	1'1387	1'1770
62	F	$-\frac{3}{4}\frac{5}{4}$	354	20 50'	48 48'	22 07'	46 52'	15 32'	44 41'	0'4064	1'0675	1'1432
63	H	$-\frac{5}{4}\frac{3}{4}$	534	58 48'	51 02'	46 36'	32 38'	41 42'	23 45'	1'0579	0'6405	1'2368
64	K	$-\frac{2}{3}\frac{8}{3}$	285	2 04'	53 49'	2 50'	53 48'	1 40'	53 46'	0'0495	1'3664	1'3673
65	Φ	$+\frac{7}{9}\frac{5}{3}$	7'15'9	48 05'	64 51'	57 45'	54 54'	42 21'	37 13'	1'5854	1'4234	2'1307

Topas.

Rhombisch.

a = 0.5285	lg a = 972304	lg a ₀ = 974354	lg p ₀ = 025646	a ₀ = 0'5540	p ₀ = 1'8049
c = 0'9539	lg c = 997950	lg b ₀ = 002050	lg q ₀ = 997950	b ₀ = 1'0483	q ₀ = 0'9539

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	0∞	010	0° 00'	90 00'	"	90 00'	"	90 00'	"	∞	∞
3	a	∞0	100	90 00'	"	90 00'	0 00'	90 00'	0 00'	∞	0	"
4	?j	6∞	610	84 58'	"	"	90 00'	84 58'	5 02'	11'3530	∞	"
5	ζ	4∞	410	82 28'	"	"	"	82 28'	7 31'	7'5687	"	"
6	N	2∞	210	75 12'	"	"	"	75 12'	14 48'	3'7843	"	"
7	M	∞	110	62 08'	"	"	"	62 08'	27 51'	1'8922	"	"
8	?O	$\infty\frac{5}{6}$	560	57 37'	"	"	"	57 37'	32 23'	1'5768	"	"
9	m	$\infty\frac{3}{2}$	230	51 35'	"	"	"	51 35'	38 24'	1'2614	"	"
10	λ	$\infty\frac{7}{4}$	470	47 14'	"	"	"	47 14'	42 46'	1'0812	"	"
11	?r	$\infty\frac{13}{5}$	7'13'0	45 32'	"	"	"	45 32'	44 28'	1'0189	"	"
12	?L	$\infty\frac{15}{8}$	8'15'0	45 15'	"	"	"	45 15'	44 44'	1'0092	"	"
13	l	∞2	120	43 25'	"	"	"	43 25'	46 35'	0'9461	"	"
14	?u	$\infty\frac{11}{4}$	5'11'0	40 42'	"	"	"	40 42'	49 18'	0'8601	"	"
15	π	$\infty\frac{5}{2}$	250	37 07'	"	"	"	37 07'	52 53'	0'7568	"	"
16	g	∞3	130	32 14'	"	"	"	32 14'	57 45'	0'6307	"	"
17	n	∞4	140	25 19'	"	"	"	25 19'	64 41'	0'4730	"	"
18	μ	∞5	150	20 43'	"	"	"	20 43'	69 16'	0'3784	"	"
19	D	$0\frac{1}{2}$	015	0 00'	10 48'	0 00'	10 48'	0 00'	10 48'	0	0'1908	0'1908
20	H	$0\frac{1}{3}$	013	"	17 38'	"	17 38'	"	17 38'	"	0'3179	0'3179
21	F	$0\frac{2}{5}$	025	"	20 53'	"	20 53'	"	20 53'	"	0'3815	0'3815
22	β	$0\frac{1}{4}$	012	"	25 30'	"	25 30'	"	25 30'	"	0'4769	0'4769
23	G	$0\frac{2}{5}$	035	"	29 47'	"	29 47'	"	29 47'	"	0'5723	0'5723
24	X	$0\frac{2}{3}$	023	"	32 27'	"	32 27'	"	32 27'	"	0'6359	0'6359
25	K	$0\frac{4}{5}$	045	"	37 21'	"	37 21'	"	37 21'	"	0'7631	0'7631
26	J	$0\frac{5}{6}$	056	"	38 29'	"	38 29'	"	38 29'	"	0'7949	0'7949
27	f	01	011	"	43 39'	"	43 39'	"	43 39'	"	0'9539	0'9539

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x: y)	y	d = tge
28	γ	$0\frac{8}{7}$	087	0°00	47°29	0°00	47°29	0°00	47°29	0	1'0901	1'0901
29	k	$0\frac{3}{2}$	032	"	55 03	"	55 03	"	55 03	"	1'4308	1'4308
30	y	02	021	"	62 20	"	62 20	"	62 20	"	1'9078	1'9078
31	Δ	$0\frac{1}{4}\frac{5}{2}$	0'15'4	"	74 23	"	74 23	"	74 23	"	3'5771	3'5771
32	w	$0\frac{4}{4}$	041	"	75 19	"	75 19	"	75 19	"	3'8156	3'8156
33	ω	$\frac{1}{4}$	104	90 00	24 17	24 17	0 00	24 17	0 00	0'4512	0	0'4512
34	h	$\frac{1}{2}0$	103	"	31 02	31 02	"	31 02	"	0'6016	"	0'6016
35	δ	$\frac{1}{2}0$	205	"	35 49'	35 49'	"	35 49'	"	0'7219	"	0'7219
36	p	$\frac{1}{2}0$	102	"	42 04	42 04	"	42 04	"	0'9024	"	0'9024
37	C	$\frac{3}{4}0$	305	"	47 17	47 17	"	47 17	"	1'0829	"	1'0829
38	V	$\frac{3}{4}0$	304	"	53 33	53 33	"	53 33	"	1'3537	"	1'3537
39	B	$\frac{3}{4}0$	405	"	55 18	55 18	"	55 18	"	1'4439	"	1'4439
40	κ	$\frac{9}{10}0$	9'0'10	"	58 23	58 23	"	58 23	"	1'6244	"	1'6244
41	d	10	101	"	61 00'	61 00'	"	61 00'	"	1'8049	"	1'8049
42	ϱ	20	201	"	74 31	74 31	"	74 31	"	3'6098	"	3'6098
43	P	$\frac{7}{2}0$	702	"	81 00'	81 00'	"	81 00'	"	6'3173	"	6'3173
44	ε	$\frac{1}{4}\frac{1}{4}$	114	62 08'	27 02'	24 17	13 25	23 42	12 16	0'4512	0'2385	0'5104
45	i	$\frac{1}{4}\frac{1}{4}$	113	"	34 14	31 02	17 38'	29 49'	15 14'	0'6016	0'3179	0'6805
46	f	$\frac{2}{5}0$	225	"	39 14	35 49'	20 53	34 00	17 11'	0'7219	0'3815	0'8166
47	u	$\frac{1}{5}0$	112	"	45 35'	42 04	25 30	39 10	19 30	0'9024	0'4769	1'0207
48	S	$\frac{2}{5}0$	335	"	50 46'	47 17	29 47	43 13'	21 13	1'0830	0'5723	1'2249
49	Z	$\frac{3}{4}\frac{1}{2}$	334	"	56 51	53 33	35 35	47 45	23 02	1'3537	0'7154	1'5311
50	ρ	$\frac{3}{4}\frac{1}{2}$	556	"	59 33	56 23	38 29	49 39'	23 43'	1'5041	0'7949	1'7012
51	o	I	111	"	63 54	61 00'	43 39	52 33'	24 48'	1'8049	0'9593	2'0414
52	w	$\frac{9}{2}0$	995	"	74 46'	72 53'	59 47	58 33	26 48	3'2498	1'7170	3'6746
53	e	2	221	"	76 14'	74 31	62 20'	59 10'	26 59'	3'6098	1'9078	4'0829
54	Q	7	771	"	86 00	85 28'	81 29	61 53	27 47	12'6350	6'6773	14'291
55	\mathfrak{H}	$1\frac{1}{4}$	414	82 28.	61 13'	61 00'	13 25	60 20	6 35'	1'5041	0'2385	1'8206
56	\mathfrak{G}	$1\frac{1}{3}$	313	80 00'	61 23	"	17 38'	59 49'	8 45'	"	0'3179	1'8327
57	Y	$1\frac{1}{2}$	212	75 12	61 49'	"	25 30	58 27'	13 01	"	0'4769	1'8669
58	\mathfrak{E}	$1\frac{1}{2}$	545	67 05	62 58	"	37 21	55 07'	20 18	"	0'7631	1'9596
59	r	$\frac{12}{12}$	121	43 25	69 09'	"	62 20'	39 57'	42 45'	"	1'9078	2'6263
60	i	13	131	32 14'	73 32	"	70 44'	30 46	54 12'	"	2'8617	3'3833
61	R	14	141	25 19	76 40'	"	75 19	24 35'	61 35'	"	3'8156	4'2209
62	\mathfrak{B}	$\frac{1}{3}1$	155	20 43'	45 34	19 51	43 39	14 38'	41 54	0'3610	0'9593	1'0199
63	T	$\frac{1}{3}1$	133	32 14'	48 26	31 02	"	23 31'	39 15'	0'6016	"	1'1278
64	Ω	$\frac{2}{3}1$	255	37 07	50 06'	35 49'	"	27 35	37 43	0'7219	"	1'1963
65	v	$\frac{1}{2}1$	122	43 25	52 42'	42 04	"	33 08'	35 18	0'9024	"	1'3131
66	Σ	$\frac{7}{7}1$	477	47 14	54 33'	45 53	"	36 44	33 35	1'0314	"	1'4048
67	η	$\frac{2}{3}1$	233	51 35'	56 55'	50 16'	"	41 03	31 22	1'2033	"	1'5355
68	A	$\frac{7}{7}1$	577	53 30	58 03'	52 12	"	43 00'	30 19	1'2892	"	1'6037
69	Θ	$\frac{4}{4}1$	455	56 33	59 58'	55 18	"	46 15'	28 30'	1'4440	"	1'7306
70	U	26	261	32 14	81 35'	74 31	80 05'	31 51	56 48	3'6098	5'7234	6'7666
71	Π	$\frac{3}{2}2$	342	54 50	73 12	69 43'	62 20'	51 30	33 28	2'7066	1'9078	3'3120
72	E	32	321	70 35'	80 07	79 32	"	68 18'	19 06'	5'4147	"	5'7410

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
73	a	$\frac{1}{2} \frac{1}{4}$	214	75° 12	43° 01'	42° 04	13° 25	41° 16'	10° 02'	0° 9024	0'2385	0'9335
74	Ψ	$\frac{1}{2} \frac{3}{2}$	132	32 14'	59 24'	"	55 03	27 20'	46 44'	"	1'4308	1'6916
75	a	$\frac{1}{2} \frac{2}{2}$	152	20 43'	68 35	"	67 15	19 14'	60 32'	"	2'3848	2'5498
76	s	$\frac{1}{2} \frac{1}{2}$	136	32 14'	29 25	16 44'	25 30	15 11'	24 33	0° 3008	0'4769	0'5639
77	ψ	$\frac{1}{4} \frac{1}{2}$	124	43 25	33 17	24 17	"	22 09'	23 29'	0° 4512	"	0'6566
78	ll	$\frac{3}{2} \frac{1}{2}$	312	80 00'	70 00'	69 43'	"	67 44'	9 23	2° 7074	"	2'7491
79	χ	$\frac{1}{6} \frac{1}{3}$	216	75 12	31 53'	31 02	9 02	30 43	7 45'	0° 6016	0'1589	0'6223
80	x	$\frac{1}{3} \frac{2}{3}$	123	43 25	41 12	"	32 27	26 55	28 35	"	0'6359	0'8754
81	φ	$\frac{1}{3} \frac{1}{3}$	143	25 19	54 36	"	51 49'	20 24	47 27'	"	1'2718	1'4070
82	b	$\frac{1}{3} \frac{5}{3}$	153	20 43'	59 32	"	57 50	17 46	53 43	"	1'5898	1'6998
83	q	$\frac{2}{3} \frac{1}{3}$	213	75 12	51 13	50 16'	17 38'	48 54'	11 29	1° 2033	0'3179	1'2446
84	c	$\frac{4}{3} \frac{1}{3}$	413	82 28'	67 36'	67 26	"	66 26'	6 57'	2° 4065	"	2'4275
85	b	4'10	4'10'1	37 07	85 13'	82 07	84 01	36 58	52 37	7° 2192	9'5930	11'963
86	θ	$\frac{1}{4} \frac{3}{4}$	134	32 14'	40 13'	24 17	35 35	20 09	33 06'	0° 4512	0'7154	0'8458
87	e	$\frac{1}{4} \frac{1}{4}$	154	20 43'	51 53'	"	50 01	16 10	47 23	"	1'1924	1'2749
88	h	$\frac{1}{4} \frac{7}{4}$	174	15 07'	59 57'	"	59 04'	13 03'	56 41	"	1'6693	1'7292
89	i	$\frac{1}{4} \frac{5}{4}$	1'10'4	10 43	67 36'	"	67 15	9 36	65 17'	"	2'3848	2'4270
90	τ	$\frac{3}{4} \frac{1}{4}$	314	80 00'	53 58	53 33	13 25	52 47	8 04	1° 3537	0'2385	1'3745
91	i	$\frac{7}{8} \frac{1}{4}$	728	81 25	57 57	57 39'	"	56 56	7 16	1° 5793	"	1'5972
92	t	$\frac{1}{5} \frac{3}{5}$	135	32 14'	34 05	19 51	29 47	17 24	28 18	0° 3610	0'5723	0'6767
93	f	$\frac{7}{2} \frac{6}{2}$	7'12'2	47 49'	83 18'	81 00'	80 05'	47 23'	41 49'	6° 3173	5'4658	8'5244
94	Q	$\frac{6}{7} \frac{1}{7}$	617	84 58	57 13'	57 07'	7 45'	56 53	4 14	1° 5471	0'1363	1'5531
95	l	9'17	9'17'1	45 03	87 30'	86 28'	86 28'	44 59'	44 54	16° 2441	16'2160	22'953
96	ν	$\frac{9}{10} \frac{1}{10}$	1'9'10	11 52'	41 15'	10 14	40 39	7 48	40 11'	0° 1804	0'8585	0'8773
97	m	$\frac{2}{3} \frac{4}{3}$	243	43 25	60 16	50 16'	51 49'	36 38'	39 06'	1° 2033	1'2721	1'7504
98	n	$\frac{2}{3} \frac{5}{3}$	253	37 07	63 22	"	57 50	32 39	45 27'	"	1'5898	1'9938
99	o	$\frac{4}{3} \frac{1}{3}$	2'10'3	20 43'	73 36'	"	72 32'	19 51	63 48	"	3'1796	3'3997
100	\mathcal{L}	$\frac{5}{6} \frac{2}{6}$	523	78 04	71 59	71 36'	32 27	68 30	11 20'	3° 0082	0'6359	3'0747
101	E	$\frac{5}{6} \frac{3}{6}$	368	43 25	44 34	34 05'	35 35	28 50	30 39	0° 6785	0'7154	0'9849
102	q	$\frac{4}{6} \frac{5}{6}$	465	51 35'	61 30'	55 18	48 51'	43 32	33 05'	1° 4439	1'1446	1'8426
103	A	$\frac{5}{8} \frac{7}{8}$	576	53 30	61 52'	56 23	48 03'	45 09	31 38'	1° 5041	1'1129	1'8710
104	σ	$\frac{7}{8} \frac{1}{8}$	7'14'8	43 25	66 29	57 39'	59 04'	39 04	41 46	1° 5793	1'6693	2'2980
105	Q	$\frac{5}{8} \frac{8}{8}$	285	25 19	59 22	35 49'	56 46	21 35	51 03'	0° 7219	1'5262	1'6883
106	\mathcal{C}	$\frac{3}{9} \frac{2}{9}$	325	70 35'	48 57	47 17	20 53	45 20	14 31	1° 0829	0'3815	1'1482
107	v	$\frac{2}{9} \frac{7}{9}$	297	22 48'	53 04	27 17	50 48'	18 03	47 28	0° 5157	1'2264	1'3304
108	η	$\frac{4}{7} \frac{10}{7}$	4'10'7	37 07	59 40	45 53	53 43'	31 23'	43 29'	1° 0314	1'3627	1'7090
109	ξ	$\frac{5}{7} \frac{4}{7}$	547	67 05	54 27'	52 12	28 35'	48 32'	18 28'	1° 2892	0'5451	1'3997
110	ξ	$\frac{5}{7} \frac{5}{7}$	549	"	47 26	45 04'	22 58'	42 43	16 40	1° 0027	0'4239	1'0887
111	z	$\frac{7}{15} \frac{4}{15}$	7'4'15	73 12	41 20'	40 06'	14 16'	39 13'	11 00'	0° 8423	0'2543	0'8799
112	p	$\frac{3}{11} \frac{5}{11}$	354	48 37'	61 00	53 33	50 01	41 01	35 19	1° 3537	1'1924	1'8039
113	Φ	$\frac{8}{11} \frac{14}{11}$	8'14'11	47 14	60 47	52 42	50 31'	39 51	36 20'	1° 3127	1'2140	1'7880

Tridymit.

Hexagonal - holoedrisch.

$$c = 2.8624 \quad \lg c = 0.45673 \quad \lg a_0 = 978183 \quad \lg p_0 = 028064 \quad a_0 = 0.6051 \quad p_0 = 1.9083 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	a	∞ o	10 $\bar{1}$ 0	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	11 $\bar{2}$ 0	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	l	$\frac{2}{3}\infty$	5490	26 20	"	"	"	26 20	63 40	0.4949	"	"
5	i	$\frac{2}{3}\infty$	32 $\bar{5}$ 0	23 25	"	"	"	23 25	66 35	0.4330	"	"
6	w	$\frac{1}{2}$ o	10 $\bar{1}$ 6	0 00	17 38'	0 00	17 38'	0 00	17 38'	o	0.3180	0.3180
7	e	$\frac{1}{2}$ o	10 $\bar{1}$ 3	"	32 27'	"	32 27'	"	32 27'	"	0.6361	0.6361
8	f	$\frac{1}{2}$ o	10 $\bar{1}$ 2	"	43 39'	"	43 39'	"	43 39'	"	0.9541	0.9541
9	g	$\frac{2}{3}$ o	20 $\bar{2}$ 3	"	51 50	"	51 50	"	51 50	"	1.2722	1.2722
10	r	$\frac{2}{3}$ o	30 $\bar{3}$ 4	"	55 03'	"	55 03'	"	55 03'	"	1.4312	1.4312
11	p	10	10 $\bar{1}$ 1	"	62 20'	"	62 20'	"	62 20'	"	1.9083	1.9083
12	q	$\frac{4}{3}$ o	40 $\bar{4}$ 3	"	68 32'	"	68 32'	"	68 32'	"	2.5444	2.5444
13	x	$1\frac{1}{8}$	8198	5 49	63 52	11 40'	63 45	5 13	63 16'	0.2067	2.0275	2.0380

Trimerit.

Hexagonal.

$$c = 1.6321 \quad \lg c = 0.21275 \quad \lg a_0 = 002581 \quad \lg p_0 = 003666 \quad a_0 = 1.0612 \quad p_0 = 1.0881 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	m	∞ o	10 $\bar{1}$ 0	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	n	∞	11 $\bar{2}$ 0	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	s	$\frac{1}{2}$ o	10 $\bar{1}$ 2	0 00	28 33	0 00	28 33	0 00	28 33	o	0.5440	0.5440
5	p	10	10 $\bar{1}$ 1	"	47 25	"	47 25	"	47 25	"	1.0881	1.0881
6	o	$1\frac{1}{2}$	21 $\bar{3}$ 1	19 06'	55 12'	25 13'	53 40'	15 35'	50 54	0.4712	1.3601	1.4394

Triphylin.

Rhombisch.

a = 0.8696	lg a = 993932	lg a ₀ = 991689	lg p ₀ = 008311	a ₀ = 0.8258	p ₀ = 1.2109
c = 1.0530	lg c = 002243	lg b ₀ = 997757	lg q ₀ = 002243	b ₀ = 0.9497	q ₀ = 1.0530

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d =tg ρ
1	P	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
2	M	0∞	010	0° 00	90 00	0° 00	90 00	0° 00	90 00	∞	∞	∞
3	T	2∞	210	66 30	0° 00	90 00	0° 00	66 30	23 30	2.2999	∞	∞
4	l	∞	110	48 59'	0° 00	0° 00	0° 00	48 59'	41 00'	1.1490	∞	∞
5	o	01	011	0 00	46 28'	0 00	46 28'	0 00	46 28'	0	1.0530	1.0530
6	n	0 $\frac{3}{2}$	032	0 00	57 39'	0 00	57 39'	0 00	57 39'	0	1.5795	1.5795
7	w	$\frac{1}{2}$ 0	102	90 00	31 11'	31 11'	0 00	31 11'	0 00	0.6054	0	0.6054
8	u	$\frac{1}{10}$	101	0 00	50 27	50 27	0 00	50 27	0 00	1.2109	∞	1.2109
9	v	$\frac{3}{2}$ 0	302	0 00	61 10	61 10	0 00	61 10	0 00	1.8163	∞	1.8163

Triploidit.

Monoklin.

a = 1.8571	lg a = 026882	lg a ₀ = 009491	lg p ₀ = 990509	a ₀ = 1.2443	p ₀ = 0.8037
c = 1.4925	lg c = 017391	lg b ₀ = 982609	lg q ₀ = 015154	b ₀ = 0.6700	q ₀ = 1.4176
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 71^{\circ}46'$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 997763$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 949539$	$\lg \frac{p_0}{q_0} = 975355$	h = 0.9498	e = 0.3129

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ρ
1	c	0	001	90° 00	18° 14	18° 14	0° 00	18° 14	0° 00	0.3294	0	0.3294
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	0 00	90 00	0 00	90 00	0 00	∞	0	∞
4	J	∞	110	29 33	0 00	0 00	90 00	29 33	60 27	0.5669	∞	∞
5	e	01	011	12 27	56 48'	18 14	56 10'	10 23'	54 48	0.3294	1.4924	1.5285
6	p	-21	211	42 24	63 40'	53 44	0 00	37 11	41 26'	1.3629	1.4925	2.0211

Trippkeit.

Tetragonal.

$$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 0.6477 \quad \lg c = 981137 \quad \lg a_o = 018863 \quad a_o = 1.5439$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	a	o∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	110	45 00	"	90 00	"	45 00	45 00	1.0000	"	"
4	u	01	011	0 00	32 56	0 00	32 56	0 00	32 56	o	0.6477	0.6477
5	o	02	021	"	52 20	"	52 20	"	52 20	"	1.2954	1.2954
6	e	06	061	"	75 34	"	75 34	"	75 34	"	3.8861	3.8861
7	y	$\frac{1}{2}1$	122	26 34	35 54	17 56	32 56	15 12	31 38	0.3238	0.6477	0.7241
8	?z	$1\frac{3}{2}$	232	33 41	49 25	32 56	44 10	24 55	39 11	0.6477	0.9715	1.1676
9	x	12	121	26 34	55 22	"	52 20	21 35	47 23	"	1.2954	1.4483

Trona.

Monoklin.

a = 2.8459	lga = 045422	lga _o = 998152	lgp _o = 001848	a _o = 0.9583	p _o = 1.0435
c = 2.9696	lgc = 047270	lgb _o = 952730	lgq _o = 046208	b _o = 0.3367	q _o = 2.8979
$\left. \begin{matrix} \mu \\ 180 - \beta \end{matrix} \right\} 77.23$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 998938$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} 933931$	$\lg \frac{p_o}{q_o} = 955640$	h = 0.9758	e = 0.2184

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90° 00	12° 37	12° 37	0° 00	12° 37	0° 00	0.2238	o	0.2238
2	a	∞o	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	e	+10	101	"	52 17	52 17	"	52 17	"	1.2931	"	1.2931
4	ϑ	+ $\frac{3}{2}$ o	304	"	45 44	45 44	"	45 44	"	1.0258	"	1.0258
5	s	- $\frac{3}{2}$ o	302	90 00	54 04	54 04	"	54 04	"	1.3801	"	1.3801
6	p	+1	111	23 32	72 50	52 17	71 23	22 25	61 10	1.2931	2.9696	3.2389
7	o	-1	111	15 53	72 03	40 13	"	15 06	66 12	0.8455	"	3.0876
8	r	+21	211	38 30	75 14	67 03	"	37 01	49 10	2.3625	"	3.7947

Tungstit.

Rhombisch.

a = 0.6966	lg a = 984298	lg a ₀ = 963604	lg p ₀ = 036396	a ₀ = 0.4326	p ₀ = 2.3118
c = 1.6104	lg c = 020694	lg b ₀ = 979306	lg q ₀ = 020694	b ₀ = 0.6210	q ₀ = 1.6104

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	∞0	100	90°00	90 00	90 00	"	90 00	"	∞	"	∞
3	m	∞	110	55 08	"	"	90 00	55 08	34 52	1.4356	∞	"
4	n	∞2	120	35 40	"	"	"	35 40	54 20	0.7178	"	"
5	d	0 $\frac{1}{2}$	012	0 00	38 50	0 00	38 50	0 00	38 50	0	0.8052	0.8052
6	e	0 $\frac{3}{4}$	034	"	50 22	"	50 22	"	50 22	"	1.2078	1.2078
7	f	01	011	"	58 09	"	58 09	"	58 09	"	1.6104	1.6104
8	g	0 $\frac{5}{4}$	054	"	63 35	"	63 35	"	63 35	"	2.0130	2.0130
9	h	02	021	"	72 45	"	72 45	"	72 45	"	3.2208	3.2208

Turmalin.

Hexagonal. Rhomboedrisch-hemiedrisch.

c = 0.4477	lg c = 965099	lg a ₀ = 058757	lg p ₀ = 947490	a ₀ = 3.8687	p ₀ = 0.2985 (G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	b	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	φ	$\frac{2}{3}\infty$	5490	26 20	"	"	"	26 20	63 40	0.4949	"	"
5	χ	$\frac{4}{3}\infty$	4370	25 17	"	"	"	25 17	64 43	0.4724	"	"
6	ψ	$\frac{3}{2}\infty$	3250	23 25	"	"	"	23 25	66 35	0.4330	"	"
7	η	2∞	2130	19 06	"	"	"	19 06	70 53	0.3464	"	"
8	ω	3∞	3140	13 54	"	"	"	13 54	76 06	0.2474	"	"
9	ϑ	4∞	4150	10 53	"	"	"	10 53	79 06	0.1924	"	"
10	ς	6∞	6170	7 35	"	"	"	7 35	82 24	0.1332	"	"
11	π	10	1011	0 00	16 37	0 00	16 37	0 00	16 37	0	0.2985	0.2985
12	d'	$\pm\frac{1}{4}$	1124	30 00	7 22	3 42	6 23	3 40	6 22	0.0646	0.1119	0.1292
13	f'δ'	$\pm\frac{1}{2}$	1122	"	14 29	7 22	12 37	7 11	12 31	0.1292	0.2238	0.2585
14	p'x'	± 1	1121	"	27 20	14 29	24 07	13 16	23 26	0.2585	0.4477	0.5170
15	r'	$-\frac{5}{4}$	5.5.10.4	"	32 52	17 54	29 14	15 45	28 02	0.3231	0.5596	0.6462
16	q'	$+\frac{7}{4}$	7.7.14.4	"	42 08	24 20	38 04	19 36	35 31	0.4523	0.7835	0.9047
17	φ'	-2	2241	"	45 47	27 20	41 50	21 04	38 30	0.5170	0.8954	1.0339

N _{o.}	Buchstaben	Symb.	Bravais	φ	ρ	ξ _o	η _o	ξ	η	x (Prismen) (x : y)	y	d =tg ρ
18	k	+ $\frac{5}{2}$	5'5'10'2	30°00	52°16	32°52	48°13	23°17	43°14	0'6462	1'1193	1'2924
19	d	- $\frac{7}{5}$	7'7'14'2	"	61 04	42 08	57 27	25 57	49 17	0'9047	1'6033	1'8094
20	y	- $\frac{10}{5}$	19'19'38'5	"	63 01	44 29	59 33	26 27	50 31	0'9822	1'7012	1'9645
21	m	+4	4481	"	64 11	45 57	60 49	26 45	51 13	1'0339	1'7908	2'0679
22	δ	- $\frac{22}{5}$	22'22'44'5	"	66 16	48 40	63 05	27 14	52 26	1'1373	1'9699	2'2746
23	ε	-5	5'5'10'1	"	68 51	52 16	65 55	27 47	53 52	1'2924	2'2385	2'5848
24	r	+10'10	10'10'20'1	"	79 03	68 51	77 24	29 24	58 14	2'5847	4'4770	5'1696
25	Σ	-11'11	11'11'22'1	"	80 01	70 37	78 31	29 30	58 32	2'8433	4'9247	5'6866
26	x	+1'10	10'1'11'1	4 43	17 27	1 29	17 24	1 25	17 23	0'0258	0'3134	0'3145
27	C	+ $\frac{3}{2}$ 1	3252	23 25	33 02	14 29	30 50	12 31	30 01	0'2586	0'5969	0'6505
28	G	+ $\frac{11}{5}$ 1	11'5'16'5	17 47	40 14	"	38 52	11 23	37 58	"	0'8059	0'8463
29	H	+ $\frac{5}{2}$ 1	5272	16 06	42 59	"	41 50	10 54	40 55	"	0'8954	0'9320
30	ρ _o	+ $\frac{7}{2}$ 1	7292	12 13	50 41	"	50 03	9 25	49 08	"	1'1939	1'2215
31	K	+41	4151	10 53	53 50	"	53 20	8 46	52 26	"	1'3431	1'3681
32	P	+71	7181	6 35	66 04	"	65 55	6 01	65 14	"	2'2385	2'2534
33	a	+43'1	43'1'44'1	1 08	85 36	"	85 36	1 08	85 25	"	12'9835	12'986
34	e	-2 $\frac{1}{2}$	4152	10 53	34 22	7 22	33 53	6 07	33 40	0'1292	0'6715	0'6839
35	h	-2 $\frac{8}{7}$	14'8'22'7	21 03	39 26	16 27	37 30	13 11	36 21	0'2954	0'7675	0'8224
36	I	-2 $\frac{25}{14}$	28'25'53'14	28 07	44 23	24 46	40 48	19 15	38 05	0'4616	0'8634	0'9791
37	J	- $\frac{13}{2}$	13'10'23'5	25 41	50 01	27 20	47 03	19 24	43 40	0'5170	1'0742	1'1924
38	K	-32	3251	23 25	52 27	"	50 03	18 22	46 41	"	1'1939	1'3011
39	p	-52	5271	16 06	61 47	"	60 49	14 09	57 50	"	1'7908	1'8639
40	q	-82	8'2'10'1	10 53	69 55	"	69 35	10 13	67 16	"	2'6862	2'7355
41	Θ	- $\frac{1}{2}$ $\frac{1}{2}$	7182	6 35	48 24	7 22	48 13	4 55	47 59	0'1292	1'1192	1'1267
42	⊙	- $\frac{11}{4}$ $\frac{5}{4}$	11'5'16'4	17 47	46 36	17 54	45 12	12 49	43 47	0'3231	1'0073	1'0579
43	ρ _d	- $\frac{13}{2}$ $\frac{1}{2}$	13'1'14'2	3 40	63 39	7 22	63 36	3 17	63 24	0'1292	2'0146	2'0188

Tysonit.

Hexagonal. Holoedrisch.

$$c = 1'1893 \quad | \quad \lg c = 007529 \quad | \quad \lg a_o = 016327 \quad | \quad \lg p_o = 989920 \quad | \quad a_o = 1'4564 \quad | \quad p_o = 0'7929 \quad (G_1)$$

N _{o.}	Buchstaben	Symb.	Bravais	φ	ρ	ξ _o	η _o	ξ	η	x (Prismen) (x : y)	y	d =tg ρ
1	c	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	J	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	i	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	p	10	1011	0 00	38 24	0 00	38 24	0 00	38 24	0	0'7929	0'7929
5	q	20	2021	"	57 46	"	57 46	"	57 46	"	1'5858	1'5858
6	s	1	1121	30 00	53 56	34 28	49 56	23 50	44 26	0'6866	1'1893	1'3733

Ullmannit.

Regulär. Pentagonal-hemiedrisch.

N ₀ .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ 0\infty \end{array} \right.$	$\begin{array}{l} 001 \\ 010 \end{array}$	$\begin{array}{l} — \\ 0^\circ 00 \end{array}$	$\begin{array}{l} 0^\circ 00 \\ 90^\circ 00 \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \end{array}$	$\begin{array}{l} 0^\circ 00 \\ 90^\circ 00 \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \end{array}$	$\begin{array}{l} 0^\circ 00 \\ 90^\circ 00 \end{array}$	$\begin{array}{l} 0 \\ " \end{array}$	$\begin{array}{l} 0 \\ \infty \end{array}$	$\begin{array}{l} 0 \\ \infty \end{array}$
2	a	$\left\{ \begin{array}{l} 0\frac{1}{3} \\ 03 \\ \infty\frac{2}{3} \end{array} \right.$	$\begin{array}{l} 013 \\ 031 \\ 130 \end{array}$	$\begin{array}{l} " \\ " \\ 18^\circ 26' \end{array}$	$\begin{array}{l} 18^\circ 26' \\ 71^\circ 34' \\ 90^\circ 00' \end{array}$	$\begin{array}{l} " \\ " \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 18^\circ 26' \\ 71^\circ 34' \\ 90^\circ 00' \end{array}$	$\begin{array}{l} " \\ " \\ 18^\circ 26' \end{array}$	$\begin{array}{l} 18^\circ 26' \\ 71^\circ 34' \\ " \end{array}$	$\begin{array}{l} " \\ " \\ 0\cdot3333 \end{array}$	$\begin{array}{l} 0\cdot3333 \\ 3\cdot0000 \\ \infty \end{array}$	$\begin{array}{l} 0\cdot3333 \\ 3\cdot0000 \\ \infty \end{array}$
3	e	$\left\{ \begin{array}{l} 0\frac{1}{2} \\ 02 \\ \infty 2 \end{array} \right.$	$\begin{array}{l} 012 \\ 021 \\ 120 \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \\ 26^\circ 34' \end{array}$	$\begin{array}{l} 26^\circ 34' \\ 63^\circ 26' \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 26^\circ 34' \\ 63^\circ 26' \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \\ 26^\circ 34' \end{array}$	$\begin{array}{l} 26^\circ 34' \\ 63^\circ 26' \\ " \end{array}$	$\begin{array}{l} 0 \\ " \\ 0\cdot5000 \end{array}$	$\begin{array}{l} 0\cdot5000 \\ 2\cdot0000 \\ \infty \end{array}$	$\begin{array}{l} 0\cdot5000 \\ 2\cdot0000 \\ \infty \end{array}$
4	ϑ	$\left\{ \begin{array}{l} 0\frac{5}{7} \\ 075 \\ \infty\frac{2}{5} \end{array} \right.$	$\begin{array}{l} 057 \\ 075 \\ 570 \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \\ 35^\circ 32' \end{array}$	$\begin{array}{l} 35^\circ 32' \\ 54^\circ 27' \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 35^\circ 32' \\ 54^\circ 27' \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 0^\circ 00 \\ " \\ 35^\circ 32' \end{array}$	$\begin{array}{l} 35^\circ 32' \\ 54^\circ 27' \\ " \end{array}$	$\begin{array}{l} 0 \\ " \\ 0\cdot7143 \end{array}$	$\begin{array}{l} 0\cdot7143 \\ 1\cdot4000 \\ \infty \end{array}$	$\begin{array}{l} 0\cdot7143 \\ 1\cdot4000 \\ \infty \end{array}$
5	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	$\begin{array}{l} 011 \\ 110 \end{array}$	$\begin{array}{l} 0^\circ 00 \\ 45^\circ 00' \end{array}$	$\begin{array}{l} 45^\circ 00' \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 0^\circ 00 \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 45^\circ 00' \\ 90^\circ 00' \end{array}$	$\begin{array}{l} 0^\circ 00 \\ 45^\circ 00' \end{array}$	$\begin{array}{l} 45^\circ 00' \\ " \end{array}$	$\begin{array}{l} 0 \\ 1\cdot0000 \end{array}$	$\begin{array}{l} 1\cdot0000 \\ \infty \end{array}$	$\begin{array}{l} 1\cdot0000 \\ \infty \end{array}$
6	q	$\left\{ \begin{array}{l} \frac{1}{2} \\ 12 \end{array} \right.$	$\begin{array}{l} 112 \\ 121 \end{array}$	$\begin{array}{l} " \\ 26^\circ 34' \end{array}$	$\begin{array}{l} 35^\circ 16' \\ 65^\circ 54' \end{array}$	$\begin{array}{l} 26^\circ 34' \\ 45^\circ 00' \end{array}$	$\begin{array}{l} 26^\circ 34' \\ 63^\circ 26' \end{array}$	$\begin{array}{l} 24^\circ 05' \\ " \end{array}$	$\begin{array}{l} 24^\circ 05' \\ 54^\circ 44' \end{array}$	$\begin{array}{l} 0\cdot5000 \\ 1\cdot0000 \end{array}$	$\begin{array}{l} 0\cdot5000 \\ 2\cdot0000 \end{array}$	$\begin{array}{l} 0\cdot7071 \\ 2\cdot2360 \end{array}$
7	n	$\left\{ \begin{array}{l} \frac{2}{3} \\ 1\frac{2}{3} \end{array} \right.$	$\begin{array}{l} 223 \\ 232 \end{array}$	$\begin{array}{l} 45^\circ 00' \\ 33^\circ 41' \end{array}$	$\begin{array}{l} 43^\circ 19' \\ 60^\circ 59' \end{array}$	$\begin{array}{l} 33^\circ 41' \\ 45^\circ 00' \end{array}$	$\begin{array}{l} 33^\circ 41' \\ 56^\circ 18' \end{array}$	$\begin{array}{l} 29^\circ 01' \\ " \end{array}$	$\begin{array}{l} 29^\circ 01' \\ 46^\circ 41' \end{array}$	$\begin{array}{l} 0\cdot6667 \\ 1\cdot0000 \end{array}$	$\begin{array}{l} 0\cdot6667 \\ 1\cdot5000 \end{array}$	$\begin{array}{l} 0\cdot9428 \\ 1\cdot8028 \end{array}$
8	p	1	111	$\begin{array}{l} 45^\circ 00' \\ 54^\circ 44' \end{array}$	$\begin{array}{l} 54^\circ 44' \\ " \end{array}$	$\begin{array}{l} " \\ 45^\circ 00' \end{array}$	$\begin{array}{l} 45^\circ 00' \\ 35^\circ 16' \end{array}$	$\begin{array}{l} 35^\circ 16' \\ 35^\circ 16' \end{array}$	$\begin{array}{l} " \\ " \end{array}$	$\begin{array}{l} " \\ 1\cdot0000 \end{array}$	$\begin{array}{l} 1\cdot0000 \\ " \end{array}$	$\begin{array}{l} 1\cdot4142 \\ " \end{array}$
9	C	$\left\{ \begin{array}{l} \frac{1}{8} \\ 8 \end{array} \right.$	$\begin{array}{l} 188 \\ 881 \end{array}$	$\begin{array}{l} 7^\circ 07' \\ 45^\circ 00' \end{array}$	$\begin{array}{l} 45^\circ 13' \\ 84^\circ 57' \end{array}$	$\begin{array}{l} 7^\circ 07' \\ 82^\circ 52' \end{array}$	$\begin{array}{l} " \\ 82^\circ 52' \end{array}$	$\begin{array}{l} 5^\circ 03' \\ 44^\circ 46' \end{array}$	$\begin{array}{l} 44^\circ 46' \\ " \end{array}$	$\begin{array}{l} 0\cdot1250 \\ 8\cdot0000 \end{array}$	$\begin{array}{l} " \\ 8\cdot0000 \end{array}$	$\begin{array}{l} 1\cdot0078 \\ 11\cdot314 \end{array}$
10	v	$\left\{ \begin{array}{l} \frac{1}{3} \\ 3 \end{array} \right.$	$\begin{array}{l} 133 \\ 331 \end{array}$	$\begin{array}{l} 18^\circ 26' \\ 45^\circ 00' \end{array}$	$\begin{array}{l} 46^\circ 30' \\ 76^\circ 44' \end{array}$	$\begin{array}{l} 18^\circ 26' \\ 71^\circ 34' \end{array}$	$\begin{array}{l} 45^\circ 00' \\ 71^\circ 34' \end{array}$	$\begin{array}{l} 13^\circ 16' \\ 43^\circ 29' \end{array}$	$\begin{array}{l} 43^\circ 29' \\ " \end{array}$	$\begin{array}{l} 0\cdot3333 \\ 3\cdot0000 \end{array}$	$\begin{array}{l} 1\cdot0000 \\ 3\cdot0000 \end{array}$	$\begin{array}{l} 1\cdot0541 \\ 4\cdot2426 \end{array}$
11	u	$\left\{ \begin{array}{l} \frac{1}{2} \\ 2 \end{array} \right.$	$\begin{array}{l} 122 \\ 221 \end{array}$	$\begin{array}{l} 26^\circ 34' \\ 45^\circ 00' \end{array}$	$\begin{array}{l} 48^\circ 11' \\ 70^\circ 31' \end{array}$	$\begin{array}{l} 26^\circ 34' \\ 63^\circ 26' \end{array}$	$\begin{array}{l} 45^\circ 00' \\ 63^\circ 26' \end{array}$	$\begin{array}{l} 19^\circ 28' \\ 41^\circ 48' \end{array}$	$\begin{array}{l} 41^\circ 48' \\ " \end{array}$	$\begin{array}{l} 0\cdot5000 \\ 2\cdot0000 \end{array}$	$\begin{array}{l} 1\cdot0000 \\ 2\cdot0000 \end{array}$	$\begin{array}{l} 1\cdot1180 \\ 2\cdot8284 \end{array}$
12	Y	$\left\{ \begin{array}{l} \frac{1}{6} \\ \frac{1}{2} \\ 3 \\ 26 \end{array} \right.$	$\begin{array}{l} 126 \\ 162 \\ 261 \end{array}$	$\begin{array}{l} 26^\circ 34' \\ 9^\circ 27' \\ 18^\circ 26' \end{array}$	$\begin{array}{l} 20^\circ 26' \\ 71^\circ 48' \\ 81^\circ 01' \end{array}$	$\begin{array}{l} 9^\circ 27' \\ 26^\circ 34' \\ 63^\circ 26' \end{array}$	$\begin{array}{l} 18^\circ 26' \\ 71^\circ 34' \\ 80^\circ 32' \end{array}$	$\begin{array}{l} 8^\circ 59' \\ " \\ 18^\circ 12' \end{array}$	$\begin{array}{l} 18^\circ 12' \\ 69^\circ 33' \\ " \end{array}$	$\begin{array}{l} 0\cdot1667 \\ 0\cdot5000 \\ 2\cdot0000 \end{array}$	$\begin{array}{l} 0\cdot3333 \\ 3\cdot0000 \\ 6\cdot0000 \end{array}$	$\begin{array}{l} 0\cdot3727 \\ 3\cdot0413 \\ 6\cdot3246 \end{array}$

Uranophan.

Rhombisch.

$a = 0.3075$	$\lg a = 948534$	$\lg a_0 = 948534$	$\lg p_0 = 051466$	$a_0 = 0.3075$	$p_0 = 3.271$
$c = 1.00$	$\lg c = 0$	$\lg b_0 = 0$	$\lg q_0 = 0$	$b_0 = 1.00$	$q_0 = 1.00$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	b	0∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	m	∞	110	73 00	"	90 00	"	73 00	17 00	3'2710	"	"
3	e	01	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1'0000	1'0000

Uranospinit.

Rhombisch.

$a = 1.00$	$\lg a = 0$	$\lg a_0 = 983681$	$\lg p_0 = 016319$	$a_0 = 0.6868$	$p_0 = 1.4561$
$c = 1.4561$	$\lg c = 016319$	$\lg b_0 = 983681$	$\lg q_0 = 016319$	$b_0 = 0.6868$	$q_0 = 1.4561$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	x	01	011	0°00	55 31	"	55 31	"	55 31	"	1'4561	1'4561
3	q	$\frac{1}{2}0$	105	90 00	16 14	16 14	0 00	16 14	0 00	0.2912	0	0.2912
4	y	10	101	"	55 31	55 31	"	55 31	"	1'4561	"	1'4561
5	r	20	201	"	71 03	71 03	"	71 03	"	2'9122	"	2'9122

Uranothallit.

Rhombisch.

$a = 0.9539$	$\lg a = 997950$	$\lg a_0 = 008596$	$\lg p_0 = 991404$	$a_0 = 1.2189$	$p_0 = 0.8204$
$c = 0.7826$	$\lg c = 989354$	$\lg b_0 = 010646$	$\lg q_0 = 989354$	$b_0 = 1.2778$	$q_0 = 0.7826$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
4	n	$\infty^{\frac{3}{2}}$	230	34° 57'	90° 00'	90° 00'	90° 00'	34° 57'	55° 03'	0·6989	∞	∞
5	m	∞	110	46 21	"	"	"	46 21	43 39	1·0483	"	"
6	o	2 ∞	210	64 30	"	"	"	64 30	25 30	2·0967	"	"
7	d	01	011	0 00	38 03	0 00	38 03	0 00	38 03	0	0·7826	0·7826
8	p	1	111	46 21	48 35'	39 22	"	32 52	31 10'	0·8204	"	1·1338
9	?u	1 $\frac{1}{3}$	343	38 10'	53 00'	"	46 13	29 35	38 53'	"	1·0435	1·3274
10	?s	1 $\frac{3}{2}$	232	34 57	55 04'	"	49 34'	28 01	42 13'	"	1·1739	1·4322
11	r	12	121	27 40	60 30	"	57 25'	23 50	50 26	"	1·5652	1·7672
12	q	14	141	14 41	72 50	"	72 17	14 01	67 33	"	3·1304	3·2362
13	t	31	311	72 21'	68 50	67 53'	38 03	62 42'	16 25	2·4613	0·7826	2·5827

Uranpecherz.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	$\left\{ \begin{array}{l} - \\ 0^\circ 00' \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00' \\ 90^\circ 00' \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00' \\ 90^\circ 00' \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0^\circ 00' \\ 90^\circ 00' \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ " \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$
2	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 011 \\ 110 \end{array} \right.$	$\left\{ \begin{array}{l} " \\ 45^\circ 00' \end{array} \right.$	$\left\{ \begin{array}{l} 45^\circ 00' \\ 90^\circ 00' \end{array} \right.$	$\left\{ \begin{array}{l} " \\ 90^\circ 00' \end{array} \right.$	$\left\{ \begin{array}{l} 45^\circ 00' \\ 90^\circ 00' \end{array} \right.$	$\left\{ \begin{array}{l} " \\ 45^\circ 00' \end{array} \right.$	$\left\{ \begin{array}{l} 45^\circ 00' \\ " \end{array} \right.$	$\left\{ \begin{array}{l} " \\ 1^\circ 0000 \end{array} \right.$	$\left\{ \begin{array}{l} 1^\circ 0000 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 1^\circ 0000 \\ \infty \end{array} \right.$
3	p	1	111	"	54 44	45 00	45 00	35 16	35 16	"	1·0000	1·4142

Utahit.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 1\cdot1389 \quad \lg c = 005648 \quad \lg a_0 = 018208 \quad \lg p_0 = 988039 \quad a_0 = 1\cdot5208 \quad p_0 = 0\cdot7593 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	b	∞	1120	30° 00'	90 00	90 00	90 00	30 00	60 00	0·5773	∞	∞
3	p'	1	1121	"	52 45	33 19'	48 43	23 27	43 34'	0·6575	1·1389	1·3151

Valentinit.

Rhombisch.

$a = 0.785$	$\lg a = 989487$	$\lg a_0 = 974442$	$\lg p_0 = 025558$	$a_0 = 0.5552$	$p_0 = 1.801$
$c = 1.414$	$\lg c = 015045$	$\lg b_0 = 984955$	$\lg q_0 = 015045$	$b_0 = 0.7072$	$q_0 = 1.414$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	b	0∞	010	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	0	∞	∞
2	a	$\infty 0$	100	$90^\circ 00'$	"	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	∞	0	"
3	π	6∞	610	$82^\circ 33'$	"	"	$90^\circ 00'$	$82^\circ 33'$	$7^\circ 27'$	7.6433	∞	"
4	m	4∞	410	$78^\circ 54'$	"	"	"	$78^\circ 54'$	$11^\circ 06'$	5.0955	"	"
5	p	2∞	210	$68^\circ 34'$	"	"	"	$68^\circ 34'$	$21^\circ 26'$	2.5478	"	"
6	t	04	041	$0^\circ 00'$	$79^\circ 58'$	$0^\circ 00'$	$79^\circ 58'$	$0^\circ 00'$	$79^\circ 58'$	0	5.6560	5.6560
7	s	$0\frac{4}{3}$	043	"	$62^\circ 03'$	"	$62^\circ 03'$	"	$62^\circ 03'$	"	1.8853	1.8853
8	e	$0\frac{8}{3}$	098	"	$57^\circ 51'$	"	$57^\circ 51'$	"	$57^\circ 51'$	"	1.5907	1.5907
9	r	01	011	"	$54^\circ 44'$	"	$54^\circ 44'$	"	$54^\circ 44'$	"	1.4140	1.4140
10	q	$0\frac{1}{2}$	012	"	$35^\circ 15'$	"	$35^\circ 15'$	"	$35^\circ 15'$	"	0.7070	0.7070
11	k	$0\frac{3}{2}$	013	"	$25^\circ 14'$	"	$25^\circ 14'$	"	$25^\circ 14'$	"	0.4713	0.4713
12	l	$0\frac{1}{4}$	014	"	$19^\circ 28'$	"	$19^\circ 28'$	"	$19^\circ 28'$	"	0.3535	0.3535
13	? ξ	$\frac{1}{3}0$	103	$90^\circ 00'$	$30^\circ 59'$	$30^\circ 59'$	$0^\circ 00'$	$30^\circ 59'$	$0^\circ 00'$	0.6004	0	0.6004
14	ε	$\frac{1}{2}0$	102	"	$42^\circ 00'$	$42^\circ 00'$	"	$42^\circ 00'$	"	0.9006	"	0.9006
15	?v	$\frac{1}{3}$	113	$51^\circ 52'$	$37^\circ 21'$	$30^\circ 59'$	$25^\circ 14'$	$28^\circ 30'$	$22^\circ 00'$	0.6004	0.4713	0.7633
16	y	$\frac{1}{2}$	221	"	$77^\circ 41'$	$74^\circ 28'$	$70^\circ 31'$	$50^\circ 13'$	$37^\circ 06'$	3.6026	2.8280	4.5799

Vanadinit.

Hexagonal. Pyramidal-hemiedrisch.

$c = 1.2335$	$\lg c = 009114$	$\lg a_0 = 014742$	$\lg p_0 = 991505$	$a_0 = 1.4042$	$p_0 = 0.8223$	(G ₁)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tge
1	c	0	0001	—	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	$0^\circ 00'$	0	0	0
2	a	$\infty 0$	1010	$0^\circ 00'$	$90^\circ 00'$	"	$90^\circ 00'$	"	$90^\circ 00'$	"	∞	∞
3	b	∞	1120	$30^\circ 00'$	"	$90^\circ 00'$	"	$30^\circ 00'$	$60^\circ 00'$	0.5773	"	"
4	h	2∞	2130	$19^\circ 06'$	"	"	"	$19^\circ 06'$	$70^\circ 53'$	0.3464	"	"
5	σ	$\frac{1}{3}0$	1013	$0^\circ 00'$	$15^\circ 20'$	$0^\circ 00'$	$15^\circ 20'$	$0^\circ 00'$	$15^\circ 20'$	0	0.2741	0.2741
6	r	$\frac{1}{2}0$	1012	"	$22^\circ 21'$	"	$22^\circ 21'$	"	$22^\circ 21'$	"	0.4112	0.4112
7	x	10	1011	"	$39^\circ 26'$	"	$39^\circ 26'$	"	$39^\circ 26'$	"	0.8223	0.8223
8	y	20	2021	"	$58^\circ 42'$	"	$58^\circ 42'$	"	$58^\circ 42'$	"	1.6447	1.6447
9	?q	$\frac{5}{2}0$	5052	"	$64^\circ 03'$	"	$64^\circ 03'$	"	$64^\circ 03'$	"	2.0559	2.0559
10	z	$\frac{3}{2}0$	3031	"	$67^\circ 56'$	"	$67^\circ 56'$	"	$67^\circ 56'$	"	2.4670	2.4670
11	v	$\frac{1}{2}$	1122	$30^\circ 00'$	$35^\circ 27'$	$19^\circ 36'$	$31^\circ 40'$	$16^\circ 51'$	$30^\circ 09'$	0.3561	0.6168	0.7122
12	s	1	1121	"	$54^\circ 55'$	$35^\circ 27'$	$50^\circ 58'$	$24^\circ 09'$	$45^\circ 08'$	0.7122	1.2335	1.4243
13	m	21	2131	$19^\circ 06'$	$65^\circ 19'$	"	$64^\circ 03'$	$17^\circ 18'$	$59^\circ 09'$	"	2.0558	2.1757

Variscit.

Rhombisch.

$$\lg \frac{p_o}{q_o} = 018831; \frac{p_o}{q_o} = 1.5428; \frac{a}{b} = 0.648$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	b	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	o 00	90 00	o 00	∞	o	"
4	m	∞	110	57 03	"	"	90 00	57 03	32 57	1.5428	∞	"

Vauquelinit.

Monoklin.

a = 1.4918	lga = 017371	lga _o = 002671	lg p _o = 997329	a _o = 1.0634	p _o = 0.9403
c = 1.4028	lg c = 014700	lg b _o = 985300	lg q _o = 011952	b _o = 0.7128	q _o = 1.3168
$\mu = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 69^{\circ}50$	lgh = 997252 lg sin μ	lge = 953751 lg cos μ	lg $\frac{p_o}{q_o}$ = 985377	h = 0.9387	e = 0.3448

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90°00	20°10	20°10	0°00	20°10	0°00	0.3672	o	0.3672
2	b	∞o	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	s	8∞	810	80 04'	"	"	90 00	80 04'	9 55'	5.7130	∞	"
4	z	3∞	310	64 58'	"	"	"	64 58'	25 01'	2.1423'	"	"
5	m	2∞	210	55 00	"	"	"	55 00	35 00	1.4282	"	"
6	f	∞	110	35 32	"	"	"	35 32	54 28	0.7141	"	"
7	d	01	011	14 40'	55 24'	20 10	54 31	12 02	52 47	0.3672	1.4028	1.4501
8	x	+ $\frac{3}{2}$ o	302	90 00	61 52	61 52	o 00	61 52	o 00	1.8699	o	1.8699
9	e	+10	101	"	53 51	53 51	"	53 51	"	1.3690	"	1.3690
10	n	-10	101	90 00	32 23'	32 23'	"	32 23'	"	0.6344	"	0.6344
11	p	- $\frac{3}{2}$ o	302	"	48 37'	48 37'	"	48 37'	"	1.1352	"	1.1352
12	h	-20	201	"	58 34	58 34	"	58 34	"	1.6361	"	1.6361
13	y	- $\frac{1}{3}$ $\frac{2}{3}$	123	2 03	43 06	1 55	43 05	1 24	43 04	0.0334	0.9352	0.9358

Veszelyit.

Triklin.

$p_0 = 1.2863$	$\lambda = 89^\circ 24'$	$a = 0.7101$	$\alpha = 90^\circ 29'$	$x_0 = 0.2390$	$d = 0.2392$
$q_0 = 0.8871$	$\mu = 76^\circ 10'$	$b = 1$	$\beta = 103^\circ 50'$	$y_0 = 0.0105$	$\delta = 87^\circ 30'$
$r_0 = 1$	$\nu = 89^\circ 26'$	$c = 0.9134$	$\gamma = 90^\circ 26'$	$h = 0.9710$	

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	87° 29'	13° 50'	13° 49'	0° 37'	13° 49'	0° 36'	0.2461	0.0105	0.2464
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	89 26	"	90 00	"	89 26	0 34	101.11	"	"
4	e	∞	110	55 01'	"	"	"	55 01'	34 58'	1.4294	"	"
5	ε	$\infty \infty$	110	124 12'	"	"	"	55 47'	34 12'	1.4710	"	"
6	m	01	011	14 54'	43 44	13 49'	42 45	10 15	41 54'	0.2461	0.9244	0.9566
7	M	01	011	164 45	43 06	"	42 04'	10 21'	41 14'	"	0.9028	0.9358
8	δ	20	201	90 22	67 24'	67 24'	0 52'	67 24'	0 20'	2.4032	0.0153	2.4032
9	σ	12	121	30 35	64 45	47 10	61 17	27 23'	51 08	1.0785	1.8251	2.1199

Vivianit.

Monoklin.

$a = 0.7498$	$\lg a = 987495$	$\lg a_0 = 002880$	$\lg p_0 = 997120$	$a_0 = 10.686$	$p_0 = 0.9358$
$c = 0.7017$	$\lg c = 984615$	$\lg b_0 = 015385$	$\lg q_0 = 983222$	$b_0 = 1.4251$	$q_0 = 0.6795$
$\left. \begin{matrix} \mu = \\ 180 - \beta \end{matrix} \right\} 75^\circ 34'$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 998607$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 939664$	$\lg \frac{p_0}{q_0} = 013898$	$h = 0.9684$	$e = 0.2493$

No.	Buchstaben	Symb	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	o	001	90° 00'	14° 26'	14° 26'	0° 00'	14° 26'	0° 00'	0.2573	0	0.2573
2	b	o ∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	y	3 ∞	310	76 23'	"	"	"	76 23'	13 36'	4.1314	∞	"
5	m	∞	110	54 01	"	"	"	54 01	35 59	1.3771	"	"
6	g	0 $\frac{1}{2}$	012	36 16	23 31	14 26	19 20	13 39	18 46	0.2573	0.3508	0.4351

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
7	d	0 $\frac{2}{3}$	023	28° 49'	28° 06'	14° 26'	25° 04'	13° 07'	24° 22'	0'2573	0'4678	0'5339
8	e	01	011	20 08'	36 46'	"	35 03'	11 54'	34 12'	"	0'7017	0'7474
9	k	+40	401	90 00	76 22	76 22	0 00	76 22	0 00	4'1226'	0	4'1226'
10	n	+10	101	"	50 45	50 45	"	50 45	"	1'2237	"	1'2237
11	B	+ $\frac{1}{2}$ 0	102	"	36 31'	36 31'	"	36 31'	"	0'7406	"	0'7406
12	A	+ $\frac{1}{5}$ 0	109	"	20 02	20 02	"	20 02	"	0'3647	"	0'3647
13	o	- $\frac{1}{3}$ 0	103	90 00	3 42	3 42	"	3 42	"	0'0646'	"	0'0646'
14	w	-10	101	"	35 20	35 20	"	35 20	"	0'7089	"	0'7089
15	γ	- $\frac{7}{4}$ 0	704	"	55 06	55 06	"	55 06	"	1'4336	"	1'4336
16	t	-20	201	"	59 10	59 10	"	59 10	"	1'6752	"	1'6752
17	l	-40	401	"	74 31'	74 31'	"	74 31'	"	3'6086	"	3'6086
18	x	+1	111	60 10	54 40	50 45	35 03'	45 03'	23 56'	1'2237	0'7017	1'4106
19	z	+ $\frac{1}{2}$	112	64 39	39 20	36 31'	19 20	34 57	15 45	0'7406	0'3508'	0'8195
20	r	- $\frac{1}{2}$	112	32 45'	22 39	12 43	"	12 01'	18 53'	0'2257	"	0'4172
21	v	-1	111	45 17'	44 55'	35 20	35 03'	30 07'	29 47'	0'7089	0'7017	0'9974
22	s	-13	131	18 36'	65 46	"	64 35'	16 55	59 47'	"	2'1051	2'2263
23	i	- $\frac{8}{3}$ 1	833	73 10	67 34'	66 40'	35 03'	62 13'	15 31'	2'2455	0'7017	2'4231
24	q	- $\frac{1}{2}$ $\frac{3}{2}$	132	12 06	47 06'	12 43	46 28	8 50	45 45	0'2257	1'0525'	1'0765
25	α	+ $\frac{4}{3}$ $\frac{1}{2}$	836	77 13	57 45	57 06	19 20	55 34	10 47'	1'5458	0'3508'	1'5851
26	β	+ $\frac{3}{14}$ $\frac{5}{14}$	3'5'14	61 39	27 49'	24 55	14 04	24 15	12 48'	0'4644'	0'2506	0'5278

Voltait.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	{ 0 0 ∞	001 010	— 0°00	0°00 90 00	0°00 "	0°00 90 00	0°00 "	0°00 90 00	0 "	0 ∞	0 ∞
2	d	{ 01 ∞	011 110	" 45 00	45 00 90 00	" 90 00	45 00 90 00	" 45 00	45 00 "	" 1'0000	1'0000 ∞	1'0000 ∞
3	q	{ $\frac{1}{2}$ 12	112 121	" 26 34	35 16 65 54	26 34 45 00	26 34 63 26	24 05' "	24 05' 54 44	0'5000 1'0000	0'5000 2'0000	0'7071 2'2360
4	p	1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142

Wagnerit-Kjerulfin.

Monoklin.

a = 0.9569	lg a = 998087	lg a ₀ = 010425	lg p ₀ = 989575	a ₀ = 1.2713	p ₀ = 0.7866
c = 0.7527	lg c = 987662	lg b ₀ = 012338	lg q ₀ = 985454	b ₀ = 1.3286	q ₀ = 0.7154
$\mu_{180-\beta} = \left. \begin{matrix} \\ \end{matrix} \right\} 71^{\circ}53$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 997792$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 949269$	$\lg \frac{p_0}{q_0} = 004021$	h = 0.9504	e = 0.3110

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' =tg ϱ
1	c	0	001	90°00	18°07	18°07	0°00	18°07	0°00	0.3272	0	0.3272
2	b	∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	l	2∞	210	65 30	"	"	90 00	65 30	24 30	2.1940	∞	"
5	h	$\frac{3}{2}\infty$	320	58 43	"	"	"	58 43	31 17	1.6455	"	"
6	m	∞	110	47 39	"	"	"	47 39	42 21	1.0970	"	"
7	λ	$2\frac{3}{2}\infty$	230	36 11	"	"	"	36 11	53 49	0.7313	"	"
8	r	$2\frac{3}{4}\infty$	470	32 05	"	"	"	32 05	57 55	0.6268	"	"
9	g	∞2	120	28 45	"	"	"	28 45	61 15	0.5485	"	"
10	δ	$2\frac{5}{2}\infty$	250	23 41	"	"	"	23 41	66 18	0.4388	"	"
11	γ	∞4	140	15 20	"	"	"	15 20	74 40	0.2742	"	"
12	t	0 $\frac{1}{2}$	012	41 00	26 30	18 07	20 37	17 01	19 41	0.3272	0.3763	0.4987
13	r	01	011	23 29	39 22	"	36 58	14 39	35 34	"	0.7527	0.8207
14	f	0 $\frac{3}{2}$	032	16 09	49 36	"	48 28	12 14	47 01	"	1.1290	1.1755
15	e	02	021	12 15	57 00	"	56 24	10 15	55 03	"	1.5053	1.5405
16	π	+10	101	90 00	49 06	49 06	0 00	49 06	0 00	1.1548	0	1.1548
17	w	-10	101	90 00	26 35	26 35	"	26 35	"	0.5004	"	0.5004
18	y	-20	201	"	53 01	53 01	"	53 01	"	1.3284	"	1.3284
19	q	-30	301	"	65 06	65 06	"	65 06	"	2.1556	"	2.1556
20	v	+ $\frac{1}{2}$ 1	122	44 33	46 34	36 32	36 58	30 37	31 10	0.7410	0.7527	1.0563
21	s	+1	111	56 54	54 02	49 06	"	42 42	26 14	1.1548	"	1.3722
22	z	-1	111	33 37	42 06	26 35	"	21 47	33 56	0.5004	"	0.9039
23	i	- $\frac{1}{2}$ 1	122	6 34	37 09	4 57	"	3 58	36 52	0.0866	"	0.7576
24	x	-1 $\frac{1}{2}$	212	53 03	32 03	26 35	20 37	25 06	18 36	0.5004	0.3763	0.6261
25	o	+ $\frac{1}{2}$	221	52 47	68 07	63 14	56 24	47 39	34 08	1.9825	1.5054	2.4892
26	n	- $\frac{1}{2}$	112	12 57	21 07	4 57	20 37	4 38	20 33	0.0866	0.3763	0.3862
27	u	-2	221	41 25	63 31	53 01	56 24	36 18	42 09	1.3280	1.5054	2.0075
28	d	- $\frac{3}{4}$ $\frac{1}{4}$	314	57 20	19 13	16 21	10 39	16 05	10 14	0.2935	0.1881	0.3487

Wapplerit.

Monoklin. (?)

$a = 0.4562$	$\lg a = 965916$	$\lg a_0 = 023428$	$\lg p_0 = 976572$	$a_0 = 1.7151$	$p_0 = 0.5831$
$c = 0.2660$	$\lg c = 942488$	$\lg b_0 = 057512$	$\lg q_0 = 942294$	$b_0 = 3.7594$	$q_0 = 0.2648$
$\mu = \left. \begin{matrix} 180 - \beta \\ \alpha \end{matrix} \right\} 84^\circ 35'$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 999806$	$\lg e = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 897496$	$\lg \frac{p_0}{q_0} = 034278$	$h = 0.9956$	$e = 0.0944$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \varrho$
1	b	0∞	010	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	0	∞	∞
2	a	$\infty 0$	100	$90^\circ 00'$	"	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	∞	0	"
3	n	∞	110	$65^\circ 34'$	"	"	$90^\circ 00'$	$65^\circ 34'$	$24^\circ 25'$	2.2018	∞	"
4	m	$\infty 2$	120	$47^\circ 45'$	"	"	"	$47^\circ 45'$	$42^\circ 15'$	1.1009	"	"
5	l	$\infty 4$	140	$28^\circ 50'$	"	"	"	$28^\circ 50'$	$61^\circ 10'$	0.5505	"	"
6	d	01	011	$19^\circ 37'$	$15^\circ 46'$	$5^\circ 25'$	$14^\circ 54'$	$5^\circ 14'$	$14^\circ 50'$	0.0948	0.2660	0.2824
7	t	03	031	$6^\circ 46'$	$38^\circ 47'$	"	$38^\circ 35'$	$4^\circ 14'$	$38^\circ 28'$	"	0.7980	0.8036
8	p	+1	111	$68^\circ 39'$	$36^\circ 09'$	$34^\circ 14'$	$14^\circ 54'$	$33^\circ 20'$	$12^\circ 24'$	0.6805	0.2660	0.7307
9	π	-1	$\bar{1}11$	$\bar{6}1^\circ 33'$	$29^\circ 10'$	$\bar{2}6^\circ 09'$	"	$25^\circ 22'$	$13^\circ 26'$	0.4909	"	0.5583
10	g	+13	131	$40^\circ 27'$	$46^\circ 22'$	$34^\circ 14'$	$38^\circ 35'$	$28^\circ 00'$	$33^\circ 25'$	0.6805	0.7980	1.0488
11	e	+15	151	$27^\circ 06'$	$56^\circ 12'$	"	$53^\circ 03'$	$22^\circ 14'$	$47^\circ 43'$	"	1.3300	1.4941
12	f	+17	171	$20^\circ 04'$	$63^\circ 14'$	"	$61^\circ 45'$	$17^\circ 51'$	$56^\circ 59'$	"	1.8620	1.9825
13	o	+21	211	$78^\circ 08'$	$52^\circ 18'$	$51^\circ 42'$	$14^\circ 54'$	$50^\circ 44'$	$9^\circ 22'$	1.2663	0.2660	1.2939
14	ω	-21	$\bar{2}11$	$76^\circ 07'$	$47^\circ 57'$	$47^\circ 06'$	"	$46^\circ 08'$	$10^\circ 15'$	1.0766	"	1.1090

Wavellit.

Rhombisch.

$a = 0.5049$	$\lg a = 970321$	$\lg a_0 = 012906$	$\lg p_0 = 987094$	$a_0 = 1.3460$	$p_0 = 0.7429$
$c = 0.3751$	$\lg c = 957415$	$\lg b_0 = 042585$	$\lg q_0 = 957415$	$b_0 = 2.6660$	$q_0 = 0.3751$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\operatorname{tg} \varrho$
1	a	0∞	010	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	$0^\circ 00'$	$90^\circ 00'$	0	∞	∞
2	m	$\infty 110$	110	$63^\circ 13'$	"	$90^\circ 00'$	"	$63^\circ 13'$	$26^\circ 47'$	1.9806	"	"
3	n	$\infty \frac{4}{3}$	340	$56^\circ 02'$	"	"	"	$56^\circ 02'$	$33^\circ 57'$	1.4854	"	"
4	p	10	101	$90^\circ 00'$	$36^\circ 36'$	$36^\circ 36'$	$0^\circ 00'$	$36^\circ 36'$	$0^\circ 00'$	0.7429	0	0.7429
5	s	1	111	$63^\circ 12'$	$39^\circ 46'$	"	$20^\circ 33'$	$34^\circ 49'$	$16^\circ 45'$	"	0.3751	0.8322
6	o	12	120	$44^\circ 43'$	$46^\circ 33'$	"	$36^\circ 52'$	$30^\circ 43'$	$31^\circ 03'$	"	0.7502	1.0558

Whewellit.

Monoklin.

$a = 0.8696$	$\lg a = 993932$	$\lg a_0 = 980276$	$\lg p_0 = 019724$	$a_0 = 0.6350$	$p_0 = 1.5748$
$c = 1.3695$	$\lg c = 013656$	$\lg b_0 = 986344$	$\lg q_0 = 011645$	$b_0 = 0.7302$	$q_0 = 1.3075$
$\mu = \left. \begin{matrix} 180 \\ -\beta \end{matrix} \right\} 72^\circ 42'$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 997989$	$\lg e = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 947330$	$\lg \frac{p_0}{q_0} = 008079$	$h = 0.9547$	$e = 0.2974$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	c	0	001	90° 00'	17° 18'	17° 18'	0° 00'	17° 18'	0° 00'	0.3114	0	0.3114
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	m	∞	110	50 18	"	90 00	"	50 18	39 42	1.2044	"	"
4	u	∞2	120	31 03'	"	"	"	31 03'	58 56'	0.6022	"	"
5	l	∞3	130	21 52'	"	"	"	21 52'	68 07'	0.4014	"	"
6	z	0½	014	42 17'	24 50'	17 18'	18 54'	16 25'	18 06'	0.3114	0.3423	0.4628
7	y	0½	012	24 27'	36 57'	"	34 24'	14 24'	33 10'	"	0.6847	0.7523
8	x	01	011	12 49'	54 33'	"	53 52'	10 24'	52 35'	"	1.3695	1.4045
9	k	+½0	102	90 00	48 39'	48 39'	0 00	48 39'	0 00	1.1362	0	1.1362
10	e	-10	101	90 00	53 51'	53 51'	"	53 51'	"	1.3691	"	1.3691
11	f	+½	112	58 55'	52 59'	48 39'	34 24'	43 09'	24 20'	1.1362	0.6847	1.3266
12	s	-½½	132	14 01'	64 43'	27 10'	64 02'	12 39'	61 19'	0.5132	2.0542	2.1175

Willemit (Troostit).

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 0.6695$	$\lg c = 982575$	$\lg a_0 = 041281$	$\lg p_0 = 964966$	$a_0 = 2.5871$	$p_0 = 0.4463$	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\text{tg } \varrho$
1	c	0	0001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	a	∞0	1010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	θ	4∞	4130	10 53'	"	90 00	"	10 53'	79 06'	0.1924	"	"
4	π	10	1011	0 00	24 03'	0 00	24 03'	0 00	24 03'	0	0.4463	0.4463
5	δ'	-½	1122	30 00	21 08'	10 56'	18 30'	10 23'	18 11'	0.1933	0.3347	0.3865
6	P'	+¾	3364	"	30 06'	16 10	26 39'	14 31'	25 45'	0.2899	0.5021	0.5798
7	p' z'	± 1	1121	"	37 42'	21 08	33 48	17 48'	31 59	0.3865	0.7731	0.7731
8	z:	-½	4155	10 53'	22 15'	4 25	21 53	4 06	21 49'	0.0773	0.4017	4.0908
9	K:	+41	4151	"	63 56'	21 08	63 32	9 46'	61 54	0.3865	2.0085	2.0454

Wismuth.

Hexagonal. Rhomboedrisch-hemiedrisch.

$c = 1.3035$	$\lg c = 0.11511$	$\lg a_0 = 0.12345$	$\lg p_0 = 993902$	$a_0 = 1.3288$	$p_0 = 0.8690$	(G ₂)
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No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	δ'	$-\frac{1}{2}$	1122	30° 00	36 58	20 37	33 05'	17 30	31 23	0.3763	0.6517	0.7526
3	η'	$-\frac{4}{3}$	4485	"	50 17'	31 03	46 12	22 37'	41 46'	0.6020	1.0428	1.2041
4	p' x'	± 1	1121	"	56 24	36 58	52 30'	24 36'	46 10	0.7526	1.3035	1.5051
5	φ'	-2	2241	"	71 37'	56 24	69 01	28 19'	55 16	1.5051	2.6070	3.0103

Wismuthglanz.

Rhombisch.

$a = 0.9679$	$\lg a = 998583$	$\lg a_0 = 999239$	$\lg p_0 = 000761$	$a_0 = 0.9826$	$p_0 = 1.0177$
$c = 0.9850$	$\lg c = 999344$	$\lg b_0 = 000656$	$\lg q_0 = 999344$	$b_0 = 1.0155$	$q_0 = 0.9850$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	b	o ∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	o	"
4	d	$\infty 4$	140	14 29	"	"	90 00	14 29	75 31	0.2583	∞	"
5	e	$\infty 3$	130	19 00	"	"	"	19 00	71 00	0.3444	"	"
6	f	$\infty 2$	120	27 19	"	"	"	27 19	62 41	0.5166	"	"
7	m	∞	110	45 56	"	"	"	45 56	44 04	1.0332	"	"
8	n	4 ∞	410	76 24	"	"	"	76 24	13 36	4.1326	"	"
9	r	10	101	90 00	45 30	45 30	0 00	45 30	0 00	1.0177	o	1.0177

Witherit.

Rhombisch.

$a = 0.6032$	$\lg a = 978046$	$\lg a_0 = 991702$	$\lg p_0 = 008298$	$a_0 = 0.8261$	$p_0 = 1.2105$
$c = 0.7302$	$\lg c = 986344$	$\lg b_0 = 013656$	$\lg q_0 = 986344$	$b_0 = 1.3695$	$q_0 = 0.7302$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = $\operatorname{tg} \epsilon$
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	o∞	010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
3	B	∞3	130	28 55	”	90 00	”	28 55	61 04	0.5526	”	”
4	m	∞	110	58 54	”	”	”	58 54	31 06	1.6578	”	”
5	A	o $\frac{1}{4}$	014	0 00	10 20	0 00	10 20	0 00	10 20	o	0.1825	0.1825
6	x	o $\frac{1}{2}$	012	”	20 03	”	20 03	”	20 03	”	0.3651	0.3651
7	k	o1	011	”	36 08	”	36 08	”	36 08	”	0.7302	0.7302
8	i	o2	021	”	55 36	”	55 36	”	55 36	”	1.4604	1.4604
9	v	o3	031	”	65 28	”	65 28	”	65 28	”	2.1906	2.1906
10	h	o4	041	”	71 06	”	71 06	”	71 06	”	2.9208	2.9208
11	G	$\frac{1}{8}$	118	58 54	10 01	8 36	5 13	8 34	5 09	0.1478	0.0912	0.1767
12	F	$\frac{1}{4}$	114	”	19 28	16 50	10 20	16 35	9 54	0.3026	0.1825	0.3534
13	o	$\frac{1}{2}$	112	”	35 15	31 11	20 03	29 37	17 21	0.6052	0.3651	0.7069
14	p	1	111	”	54 43	50 26	36 08	44 21	24 56	1.2105	0.7302	1.4137
15	D	$\frac{3}{2}$	332	”	64 45	61 09	47 36	50 45	27 51	1.8158	1.0953	2.1205
16	C	2	221	”	70 31	67 33	55 36	53 50	29 08	2.4211	1.4604	2.8274

Wöhlerit.

Monoklin.

$a = 1.0544$	$\lg a = 002300$	$\lg a_0 = 017235$	$\lg p_0 = 982765$	$a_0 = 1.4871$	$p_0 = 0.6724$
$c = 0.7090$	$\lg c = 985065$	$\lg b_0 = 004935$	$\lg q_0 = 982606$	$b_0 = 1.1203$	$q_0 = 0.6700$
$\mu = \left. \begin{matrix} 180 \\ \beta \end{matrix} \right\} 70^\circ 54$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 997541$	$\lg e = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 951484$	$\lg \frac{p_0}{q_0} = 000159$	$h = 0.9449$	$e = 0.3272$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\operatorname{tg} \epsilon$
1	c	o	001	90°00	19°06	19°06	0°00	19°06	0°00	0.3462	o	0.3462
2	b	o∞	010	0 00	90 00	0 00	90 00	0 00	90 00	o	∞	∞
3	a	∞o	100	90 00	”	90 00	0 00	90 00	0 00	∞	o	”
4	l	$\frac{7}{2}\infty$	720	74 06	”	”	90 00	74 06	15 53	3.5128	∞	”
5	n	2∞	210	63 31	”	”	”	63 31	26 29	2.0073	”	”
6	m	∞	110	45 06	”	”	”	45 06	44 53	1.0038	”	”
7	g	∞2	120	26 39	”	”	”	26 39	63 21	0.5018	”	”
8	h	∞3	130	18 30	”	”	”	18 30	71 30	0.3345	”	”
9	x	o $\frac{1}{2}$	012	44 19	26 21	19 06	19 31	18 04	18 31	0.3462	0.3545	0.4956

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
10	o	01	011	26° 02	38° 16	19° 06	35° 20	15° 46	33° 49	0·3462	0·7090	0·7890
11	f	02	021	13 43	55 35	"	54 48	11 17	53 16	"	1·4180	1·4595
12	d	+10	101	90 00	46 36	46 36	0 00	46 36	0 00	1·0578	0	1·0578
13	k	-10	101	90 00	20 04	20 04	"	20 04	"	0·3653	"	0·3653
14	δ	-20	201	"	47 07	47 07	"	47 07	"	1·0768	"	1·0768
15	p	+1	111	56 10	51 51	46 36	35 20	40 47	25 58	1·0578	0·7090	1·2735
16	u	+31	311	74 03	68 49	68 03	"	63 42	14 51	2·4810	"	2·5803
17	π	-21	211	56 38	52 12	47 07	"	41 18	25 45	1·0769	"	1·2894
18	s	-1	111	27 15	38 34	20 04	"	16 35	33 39	0·3653	"	0·7976
19	i	+12	121	36 43	60 31	46 36	54 48	31 22	44 15	1·0578	1·4180	1·7691
20	ξ	-1½	212	45 51	26 59	20 04	19 31	19 00	18 25	0·3653	0·3545	0·5090
21	φ	-12	121	14 27	55 40	"	54 48	11 53	53 06	"	1·4180	1·4643
22	ω	-16	161	4 54	76 49	"	76 46	4 46	75 57	"	4·2540	4·2697
23	j	-2	221	37 13	60 41	47 07	54 48	31 49	43 58	1·0769	1·4180	1·7806

Wolframit.

Monoklin.

a = 0·8255	lga = 991672	lga ₀ = 997900	lgp ₀ = 002100	a ₀ = 0·9528	p ₀ = 1·0495
c = 0·8664	lgc = 993772	lgb ₀ = 006228	lgq ₀ = 993771	b ₀ = 1·1542	q ₀ = 0·8664
$\mu_{180-\beta} = 89^\circ 32$	$\text{lg } h = \text{lg } \sin \mu = 999999$	$\text{lg } e = \text{lg } \cos \mu = 791088$	$\text{lg } \frac{p_0}{q_0} = 008329$	h = 1·0000	e = 0·0081

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x' (Prismen) (x : y)	y'	d' = $\text{tg } \varrho$
1	c	0	001	90° 00	0° 28	0° 28	0° 00	0° 28	0° 00	0·0081	0	0·0081
2	b	0∞	010	0 00	90 00	0 00	90 00	0 00	90 00	0	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	n	8∞	810	84 06	"	"	90 00	84 06	5 53	9·6912	∞	"
5	d	3∞	310	74 37	"	"	"	74 37	15 23	3·6342	"	"
6	Q	$\frac{8}{3}\infty$	830	72 48	"	"	"	72 48	17 12	3·2304	"	"
7	l	2∞	210	67 34	"	"	"	67 34	22 25	2·4228	"	"
8	m	∞	110	50 27	"	"	"	50 27	39 32	1·2114	"	"
9	r	∞2	120	31 12	"	"	"	31 12	58 48	0·6057	"	"
10	K	0 $\frac{2}{3}$	023	0 48	30 01	0 28	30 00	0 24	30 00	0·0081	0·5776	0·5777
11	f	01	011	0 32	40 54	"	40 54	0 21	40 54	"	0·8664	0·8664
12	g	0 $\frac{2}{3}$	095	0 18	57 20	"	57 20	0 15	57 20	"	1·5595	1·5595
13	w	02	021	0 16	60 00	"	60 00	0 14	60 00	"	1·7328	1·7328
14	h	+10	101	90 00	46 36	46 36	0 00	46 36	0 00	1·0576	0	1·0576

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' =tge
15	y	+ $\frac{1}{2}$ 0	102	90°00	28°03	28°03	0°00	28°03	0°00	0'5328	0	0'5328
16	q	+ $\frac{1}{3}$ 0	103	"	19 41'	19 41'	"	19 41'	"	0'3579	"	0'3579
17	u	+ $\frac{1}{4}$ 0	104	"	15 08	15 08	"	15 08	"	0'2704	"	0'2704
18	γ	- $\frac{1}{11}$ 0	1'011	90 00	4 59'	4 59'	"	4 59'	"	0'0873	"	0'0873
19	t	- $\frac{1}{2}$ 0	102	"	27 19'	27 19'	"	27 19'	"	0'5166	"	0'5166
20	δ	- $\frac{3}{4}$ 0	304	"	37 55	37 55	"	37 55	"	0'7790	"	0'7790
21	λ	-10	101	"	46 10	46 10	"	46 10	"	1'0414	"	1'0414
22	i	- $\frac{4}{3}$ 0	403	"	54 17'	54 17'	"	54 17'	"	1'3912	"	1'3912
23	k	- $\frac{5}{2}$ 0	502	"	69 04'	69 04'	"	69 04'	"	2'6157	"	2'6157
24	?z	+ $\frac{1}{3}$	113	51 06	24 42	19 41'	16 06'	18 58'	15 18	0'3579	0'2888	0'4599
25	Δ	+ $\frac{1}{2}$	112	50 53'	34 29	28 03	23 25'	26 03'	20 55'	0'5329	0'4332	0'6868
26	ω	+1	111	50 40'	53 49	46 36	40 54'	38 38	30 46	1'0576	0'8664	1'3672
27	e	- $\frac{1}{2}$	112	50 01'	33 59'	27 19'	23 25'	25 22	21 03	0'5167	0'4332	0'6743
28	o	-1	111	50 14'	53 34	46 10	40 54'	38 12'	30 58	1'0414	0'8664	1'3544
29	v	- $\frac{5}{2}$	552	50 22'	73 35'	69 05	65 13	47 38	37 43	2'6158	2'1660	3'3962
30	σ	+12	121	31 24	63 46'	46 36	60 01	27 52	49 58'	1'0576	1'7328	2'0300
31	s	-12	121	31 00'	63 41	46 10	"	27 30	50 12	1'0414	"	2'0217
32	κ	+21	211	67 39	66 18	64 37	40 54'	57 52'	20 23	2'1071	0'8664	2'2783
33	ε	-21	211	67 29'	66 10	64 26'	"	57 40'	20 30	2'0910	"	2'2633
34	τ	+32	321	61 14	74 29	72 25'	60 01	57 38	27 37'	3'1567	1'7328	3'6010
35	ζ	- $\frac{3}{2}$	132	21 41	54 26	27 19'	52 25'	17 29'	49 06'	0'5167	1'2996	1'3986

Wolfsbergit.

Rhombisch.

a = 0'8026	lg a = 990450	lg a ₀ = 010689	lg p ₀ = 989311	a ₀ = 1'2790	p ₀ = 0'7818
c = 0'6275	lg c = 979761	lg b ₀ = 020239	lg q ₀ = 979761	b ₀ = 1'5936	q ₀ = 0'6275

N ^o .	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	b	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	c	00	100	90°00	90 00	90 00	"	90 00	"	∞	"	∞
3	Δ	3 ∞	310	75 01'	"	"	90 00	75 01'	14 58'	3'8378	∞	"
4	x	$\frac{2}{3}\infty$	520	72 12	"	"	"	72 12	17 48	3'1149	"	"
5	y	$\frac{2}{3}\infty$	210	68 08	"	"	"	68 08	21 52	2'4919	"	"
6	z	$\frac{5}{6}\infty$	530	64 17	"	"	"	64 17	25 43	2'0766	"	"
7	?e	$\frac{3}{4}\infty$	320	61 51	"	"	"	61 51	28 09	1'8689	"	"
8	j	$\frac{3}{4}\infty$	430	58 57	"	"	"	58 57	31 03	1'6613	"	"
9	h	∞	110	51 15	"	"	"	51 15	38 45	1'2459'	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
10	d	$\infty \frac{3}{2}$	230	39° 43'	90° 00'	90° 00'	90° 00'	39° 43'	50° 17'	0·8306	∞	∞
11	i	$\infty 2$	120	31 55'	"	"	"	31 55'	58 04'	0·6230	"	"
12	g	$\infty 3$	130	22 33	"	"	"	22 33	67 27	0·4153	"	"
13	l	01	011	0 00	32 06'	0 00	32 06'	0 00	32 06'	0	0·6275	0·6275
14	u	$\frac{1}{3} 0$	103	90 00	14 36'	14 36'	0 00	14 36'	0 00	0·2606	0	0·2606
15	t	10	101	"	38 01	38 01	"	38 01	"	0·7818	"	0·7818
16	s	$\frac{5}{3} 0$	503	"	52 30	52 30	"	52 30	"	1·3031	"	1·3031
17	f	20	201	"	57 24	57 24	"	57 24	"	1·5636	"	1·5636
18	e	1	111	51 15	45 04'	38 01	32 06'	33 31	26 18'	0·7818	0·6275	1·0025
19	α	2	221	"	63 29'	57 24	51 27	44 15'	34 04	1·5636	1·2550	2·0050
20	τ	$\frac{1}{2} 1$	133	22 33	34 11'	14 36'	32 06'	12 27	31 16	0·2606	0·6275	0·6795
21	σ	$\frac{5}{6} 1$	566	46 04'	42 08	33 05'	"	28 53'	27 44	0·6515	"	0·9046
22	π	$\frac{5}{3} 1$	533	64 17	55 20'	52 30	"	47 49'	20 54'	1·3031	"	1·4463
23	ν	21	211	68 08	59 18'	57 24	"	52 57'	18 41	1·5636	"	1·6849
24	μ	41	411	78 39'	72 35'	72 16	"	69 19	10 49	3·1273	"	3·1896
25	q	14	141	17 18	69 10'	38 01	68 16'	16 08'	63 10'	0·7818	2·5100	2·6290
26	p	$\frac{7}{6} \frac{3}{2}$	796	44 06	52 39'	42 22	43 16	33 35'	34 49	0·9121	0·9412	0·9691

Wulfenit.

Tetragonal. Pyramidal-hemiedrisch.

$$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 1·5774 \quad \lg c = 0·19794 \quad \lg a_0 = 980206 \quad a_0 = 0·6340$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	0	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
2	n	0∞	010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1·0000	"	"
4	α	$\frac{2}{3} 0$	560	39 48'	"	"	"	39 48'	50 11'	0·8333	"	"
5	r	$\frac{2}{3} 0$	340	36 52	"	"	"	36 52	53 08	0·7500	"	"
6	β	$\frac{2}{3} 0$	230	33 41'	"	"	"	33 41'	56 18'	0·6667	"	"
7	δ	$\frac{2}{3} 0$	350	30 58	"	"	"	30 58	59 02	0·6000	"	"
8	ζ	$\frac{2}{3} 0$	470	29 44'	"	"	"	29 44'	60 15'	0·5714	"	"
9	q	$\infty 2$	120	26 34	"	"	"	26 34	63 26	0·5000	"	"
10	γ	$\infty 3$	130	18 26	"	"	"	18 26	71 34	0·3333	"	"
11	ψ	$0 \frac{1}{2} 6$	0·1·16	0 00	5 38	0 00	5 38	0 00	5 38	0	0·0986	0·0986
12	χ	$0 \frac{1}{2} 2$	0·1·12	"	7 29'	"	7 29'	"	7 29'	"	0·1314	0·1314
13	τ	$0 \frac{1}{3} 1$	013	"	27 44	"	27 44	"	27 44	"	0·5258	0·5258
14	o	$0 \frac{1}{3} 0$	012	"	38 16	"	38 16	"	38 16	"	0·7887	0·7887
15	η	$0 \frac{1}{3} 0$	023	"	46 26'	"	46 26'	"	46 26'	"	1·0516	1·0516

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
16	e	01	011	0°00	57°37'	0°00	57°37'	0°00	57°37'	0	1'5774	1'5774
17	ϑ	0 $\frac{3}{2}$	032	"	67 05'	"	67 05'	"	67 05'	"	2'3661	2'3661
18	ε	02	021	"	72 24'	"	72 24'	"	72 24'	"	3'1548	3'1548
19	i	$\frac{1}{16}$	1'1'16	45 00	7 56	5 38	5 38	5 35'	5 35'	0'0986	0'0986	0'1394
20	κ	$\frac{2}{9}$	229	"	26 22	19 19	19 19	18 18	18 18	0'3505	0'3505	0'4957
21	b	$\frac{1}{3}$	113	"	36 38	27 44	27 44	24 57'	24 57'	0'5258	0'5258	0'7436
22	p	1	111	"	65 51	57 37'	57 37'	40 10'	40 10'	1'5774	1'5774	2'2307
23	λ	$\frac{3}{2}$	332	"	73 21'	67 05'	67 05'	42 39	42 39	2'3661	2'3661	3'3460
24	μ	2	221	"	77 22	72 24'	72 24'	43 37'	43 37'	3'1548	3'1548	4'4614
25	π	$\frac{1}{3}$ 1	133	18 26	58 58'	27 44	57 37'	15 43'	54 23'	0'5258	1'5774	1'6627
26	s	13	131	"	78 40	57 37'	78 04	18 04	68 28	1'5774	4'7322	4'9881
27	B	$\frac{3}{2}$ 2	342	36 52	75 46	67 05'	72 24'	35 33'	50 51	2'3661	3'1548	3'9434

Wurtzit.

Hexagonal.

$$c = 1'4163 \quad | \quad \lg c = 015115 \quad | \quad \lg a_0 = 008741 \quad | \quad \lg p_0 = 997506 \quad | \quad a_0 = 1'2230 \quad | \quad p_0 = 0'9442 \quad (G_1)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	0	0001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	∞ 0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	n	∞	1120	30 00	"	90 00	"	30 00	60 00	0'5773	"	"
4	x	$\frac{4}{3}$ 0	4045	0 00	37 04	0 00	37 04	0 00	37 04	0	0'7554	0'7554
5	r	10	1011	"	43 21'	"	43 21'	"	43 21'	"	0'9442	0'9442
6	t	$\frac{5}{3}$ 0	5053	"	57 34	"	57 34	"	57 34	"	1'5737	1'5737
7	s	20	2021	"	62 06	"	62 06	"	62 06	"	1'8884	1'8884
8	u	80	8081	"	82 27'	"	82 27'	"	82 27'	"	7'5535	7'5535

Xanthokon.

(Rittingerit. Feuerblende.)

Monoklin. (?)

a = 1'9187	lg a = 028300	lg a ₀ = 027645	lg p ₀ = 972355	a ₀ = 1'8900	p ₀ = 0'5291
c = 1'0152	lg c = 000655	lg b ₀ = 999445	lg q ₀ = 000645	b ₀ = 0'9873	q ₀ = 1'0150
$\mu_{180-\beta} = \left. \begin{matrix} 88^{\circ}47' \\ \end{matrix} \right\}$	$\left. \begin{matrix} \lg h = \\ \lg \sin \mu \end{matrix} \right\} 999990$	$\left. \begin{matrix} \lg e = \\ \lg \cos \mu \end{matrix} \right\} 832702$	lg $\frac{p_0}{q_0} = 971710$	h = 0'9998	e = 0'0212

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X' (Prismen) (x : y)	y'	d' = tg ϱ
1	c	0	001	90°00	1°13	1°13	0°00	1°13	0°00	0'0212	0	0'0212
2	a	∞0	100	"	90 00	90 00	"	90 00	"	∞	"	∞
3	m	∞	110	27 32	"	"	90 00	27 32	62 28	0'5213	∞	"
4	n	0 $\frac{5}{3}$	053	0 43	59 25	1 13	59 25	0 37	59 25	0'0212	1'6920	1'6921
5	d	+50	501	90 00	69 27	69 27	0 00	69 27	0 00	2'6673	0	2'6673
6	D	-50	501	90 00	69 08'	69 08'	"	69 08'	"	2'6249	"	2'6249
7	r	+ $\frac{1}{2}$	112	29 23	30 13'	15 57	26 55	14 18	26 01	0'2858	0'5076	0'5825
8	R	- $\frac{1}{2}$	112	25 37	29 22'	13 41	"	12 14'	26 15	0'2434	"	0'5629
9	t	+ $\frac{2}{3}$	223	28 55'	37 42'	20 30'	34 05'	17 12'	32 22	0'3740	0'6768	0'7732
10	T	- $\frac{2}{3}$	223	26 06	37 00'	18 20'	"	15 21'	32 43	0'3316	"	0'7536
11	p	+1	111	28 28	49 06'	28 50	45 26	21 07	41 39	0'5504	1'0152	1'1548
12	P	-1	111	26 35	48 37'	26 56	"	19 37'	42 09	0'5080	"	1'1352
13	y	+ $\frac{4}{3}$	443	28 14	56 56'	36 00'	53 32'	23 21'	47 35'	0'7269	1'3536	1'5364
14	Y	- $\frac{4}{3}$	443	26 49'	56 36	34 23'	"	22 08	48 10	0'6845	"	1'5168
15	q	+5	551	27 43	80 06'	69 27	78 51'	27 16'	60 42	2'6673	5'0760	5'7341
16	Q	-5	551	27 20'	80 04'	69 09	"	26 54	61 02'	2'6249	"	5'7146

Xenotim.

Tetragonal.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0'8757$	lg c = 994236	lg a ₀ = 005764	a ₀ = 1'1419
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d = tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞	110	45 00	"	90 00	"	45 00	45 00	1'0000	"	"
4	z	01	011	0 00	41 12'	0 00	41 12'	0 00	41 12'	0	0'8757	0'8757
5	x	03	031	"	69 09'	"	69 09'	"	69 09'	"	2'6271	2'6271
6	e	$\frac{1}{2}$	112	45 00	31 46	23 38'	23 38'	21 51'	21 51'	0'4378	0'4378	0'6192
7	f	1	111	"	51 04'	41 12'	41 12'	33 22'	33 22'	0'8757	0'8757	1'2384
8	τ	12	121	26 34	62 57	"	60 16'	23 28	52 48	"	1'7514	1'9581

Yttrotantalit.

Rhombisch.

$a = 0.5412$	$\lg a = 973336$	$\lg a_o = 967913$	$\lg p_o = 032087$	$a_o = 0.4777$	$p_o = 2.0935$
$c = 1.1330$	$\lg c = 005423$	$\lg b_o = 994577$	$\lg q_o = 005423$	$b_o = 0.8826$	$q_o = 1.1330$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
3	o	2∞	210	74 51'	”	90 00	”	74 51'	15 08'	3.6955	”	”
4	m	∞	110	61 34'	”	”	”	61 34'	28 25'	1.8477	”	”
5	p	∞2	120	42 44	”	“	”	42 44	47 16	0.9239	”	”
6	q	∞5	150	20 17	”	”	”	20 17	69 43	0.3695	”	”
7	b	01	011	0 00	48 34	0 00	48 34	0 00	48 34	0	1.1330	1.1330
8	s	20	201	90 00	76 34	76 34	0 00	76 34	0 00	4.1870	0	4.1870

Zeunerit.

Tetragonal.

$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 1.288$	$\lg c = 010992$	$\lg a_o = 989008$	$a_o = 0.7764$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_o	η_o	ξ	η	X (Prismen) (x:y)	y	d =tg ϱ
1	o	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	n	0∞	010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
3	m	∞	110	45 00	”	90 00	”	45 00	45 00	1.0000	”	”
4	a	0 $\frac{1}{3}$	013	0 00	22 37	0 00	22 37	0 00	22 37	0	0.4166	0.4166
5	?d	0 $\frac{2}{3}$	025	”	26 34	”	26 34	”	26 34	”	0.5000	0.5000
6	?g	0 $\frac{1}{2}$	012	”	32 00	”	32 00	”	32 00	”	0.6250	0.6250
7	?s	0 $\frac{2}{3}$	023	”	39 48'	”	39 48'	”	39 48'	”	0.8333	0.8333
8	?y	01	011	”	51 20'	”	51 20'	”	51 20'	”	1.2500	1.2500
9	k	0 $\frac{5}{4}$	054	”	57 23	”	57 23	”	57 23	”	1.5625	1.5625
10	P	02	021	”	68 12	”	68 12	”	68 12	”	2.5000	2.5000
11	i	04	041	”	78 41'	”	78 41'	”	78 41'	”	5.0000	5.0000

Zinckenit.

Rhombisch.

a = 0.8969	lg a = 995274	lg a ₀ = 989584	lg p ₀ = 010416	a ₀ = 0.7868	p ₀ = 1.271
c = 1.140	lg c = 005690	lg b ₀ = 994310	lg q ₀ = 005690	b ₀ = 0.8772	q ₀ = 1.140

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d =tgρ
1	m	0 $\frac{1}{2}$	012	0° 00	29° 41	0° 00	29° 41	0° 00	29° 41	0	0.5700	0.5700
2	k	30	301	90 00	75 18'	75° 18'	0 00	75 18'	0 00	3.8131	0	3.8131

Zinkblende.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ ₀	η ₀	ξ	η	X (Prismen) (x : y)	y	d =tgρ
1	c	0	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	0	0	0
		∞∞	010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
2	b	0 $\frac{1}{8}$	018	"	7 07'	"	7 07'	"	7 07'	"	0.1250	0.1250
		08	081	"	82 52'	"	82 52'	"	82 52'	"	8.0000	8.0000
		∞8	180	7 07'	90 00	90 00	90 00	7 07'	"	0.1250	∞	∞
3	f	0 $\frac{1}{4}$	014	0 00	14 02	0 00	14 02	0 00	14 02	0	0.2500	0.2500
		04	041	"	75 58	"	75 58	"	75 58	"	4.0000	4.0000
		∞4	140	14 02	90 00	90 00	90 00	14 02	"	0.2500	∞	∞
4	e	0 $\frac{1}{2}$	012	0 00	26 34	0 00	26 34	0° 00	26 34	0	0.5000	0.5000
		02	021	"	63 26	"	63 26	"	63 26	"	2.0000	2.0000
		∞2	120	26 34	90 00	90 00	90 00	26 34	"	0.5000	∞	∞
5	b	0 $\frac{2}{3}$	023	0 00	33 41'	0 00	33 41'	0 00	33 41'	0	0.6667	0.6667
		0 $\frac{3}{2}$	032	"	56 18'	"	56 18'	"	56 18'	"	1.5000	1.5000
		∞ $\frac{3}{2}$	230	33 41'	90 00	90 00	90 00	33 41'	"	0.6667	∞	∞
6	d	01	011	0 00	45 00	0 00	45 00	0 00	45 00	0	1.0000	1.0000
		∞	110	45 00	90 00	90 00	90 00	45 00	"	1.0000	∞	∞
7	r	+ $\frac{1}{2}$	1.1.12	"	6 43	4 46	4 46	4 45	4 45	0.0833	0.0833	0.1179
		+ $\frac{1}{12}$	1.1.2.1	4 46	85 15	45 00	85 14	"	83 17	1.0000	12.000	12.041
8	r	0	116	45 00	13 16	9 27'	9 27'	9 20	9 20	0.1667	0.1667	0.2357
		16	161	9 27'	80 40	45 00	80 32'	"	76 44	1.0000	6.0000	6.0827
9	l	- $\frac{1}{5}$	115	45 00	15 47'	11 18'	11 18'	11 06	11 06	0.2000	0.2000	0.2828
		-15	151	11 18'	78 54	45 00	78 41'	"	74 12'	1.0000	5.0000	5.0989
10	k	+ $\frac{1}{4}$	114	45 00	19 28	14 02	14 02	13 38	13 38	0.2500	0.2500	0.3535
		±14	141	14 02	76 22	45 00	75 58	"	70 32	1.0000	4.0000	4.1231
11	pλ	± $\frac{2}{7}$	227	45 00	22 00	15 56'	15 56'	15 21'	15 21'	0.2857	0.2857	0.4041
		±1 $\frac{7}{2}$	272	15 56'	74 38'	45 00	74 03'	"	68 00	1.0000	3.5000	3.6401

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x:y)	y	d =tge
12	m	$\begin{cases} \pm \frac{1}{3} \\ \pm 13 \end{cases}$	113 131	45°00 18 26	25°14' 72 27	18°26' 45 00	18°26' 71 34	17°33' "	17°33' 64 45	0'3333 1'0000	0'3333 3'0000	0'4714 3'1623
13	M	$\begin{cases} -\frac{3}{8} \\ -1\frac{8}{3} \end{cases}$	338 383	45 00 20 33	27 56' 70 39	20 33' 45 00	20 33' 69 26	19 21 "	19 21 62 03	0'3750 1'0000	0'3750 2'6667	0'5303 2'8480
14	o	$\begin{cases} -\frac{2}{7} \\ -1\frac{5}{2} \end{cases}$	225 252	45 00 21 48	29 30 69 37	21 48 45 00	21 48 68 12	20 22' "	20 22' 60 30	0'4000 1'0000	0'4000 2'5000	0'5657 2'6924
15	o	$\begin{cases} -\frac{4}{9} \\ -1\frac{4}{9} \end{cases}$	449 494	45 00 23 58	32 09 67 54	23 58 45 00	23 58 66 02	22 06 "	22 06 57 51	0'4444 1'0000	0'4444 2'2500	0'6285 2'4622
16	q	$\begin{cases} \pm \frac{1}{2} \\ \pm 12 \end{cases}$	112 121	45 00 26 34	35 16 65 54	26 34 45 00	26 34 63 26	24 05' "	24 05' 54 44	0'5000 1'0000	0'5000 2'0000	0'7071 2'2360
17	A	$\begin{cases} -\frac{4}{7} \\ -1\frac{7}{4} \end{cases}$	447 474	45 00 29 44	38 56' 63 36	29 44' 45 00	29 44' 60 15	26 23' "	26 23' 51 03	0'5714 1'0000	0'5714 1'7500	0'8081 2'0155
18	n	$\begin{cases} \frac{2}{3} \\ 1\frac{3}{2} \end{cases}$	223 232	45 00 33 41	43 19 60 59	33 41' 45 00	33 41' 56 18	29 01 "	29 01 46 41	0'6667 1'0000	0'6667 1'5000	0'9428 1'8028
19	p	± 1	111	45 00	54 44	"	45 00	35 16	35 16	"	1'0000	1'4142
20	Q	$\begin{cases} -\frac{2}{5} I \\ -1\frac{5}{2} \end{cases}$	2'15'15 15'15'2	7 35' 45 00	45 15 84 37	7 35' 82 24	" 82 24	5 23 44 45	44 45 "	0'1333 7'5000	" 7'5000	1'0089 10'606
21	v	$\begin{cases} \pm \frac{1}{3} I \\ \pm 3 \end{cases}$	133 331	18 26 45 00	46 30' 76 44	18 26 71 34	45 00 71 34	13 16 43 29	43 29' "	0'3333 3'0000	1'0000 3'0000	1'0541 4'2426
22	u	$\begin{cases} -\frac{1}{2} I \\ -2 \end{cases}$	212 221	26 34 45 00	48 11' 70 32	26 34 63 26	45 00 63 26	19 28 41 48	41 48' "	0'5000 2'0000	1'0000 2'0000	1'1180 2'8284
23	p	$\begin{cases} -\frac{3}{10} I \\ -\frac{5}{3} \end{cases}$	355 553	30 58 45 00	49 23 67 00	30 58 59 02	45 00 59 02	22 59' 40 37	40 37 "	0'6000 1'6667	1'0000 1'6667	1'1662 2'3570
24	Φ	$\begin{cases} -\frac{5}{8} I \\ -\frac{8}{5} \end{cases}$	588 885	32 00' 45 00	49 42 66 09	32 00' 57 59	45 00 57 59	23 50' 40 18	40 18 "	0'6250 1'6000	1'0000 1'6000	1'1792 2'2627
25	x	$\begin{cases} -\frac{1}{3} \frac{2}{3} \\ -\frac{1}{2} \frac{3}{2} \\ -23 \end{cases}$	123 132 231	26 34 18 26 33 41	36 42 57 41 74 30	18 26 26 34 63 26	33 41' 56 18' 71 34	15 30 "	32 18' 53 18 "	0'3333 0'5000 2'0000	0'6667 1'5000 3'0000	0'7453 1'5811 3'6055
26	w	$\begin{cases} -\frac{1}{4} \frac{3}{4} \\ -\frac{1}{3} \frac{4}{3} \\ -34 \end{cases}$	134 143 341	18 26 14 02 36 52	38 19' 53 57' 78 41	14 02 18 26 71 34	36 52 53 08 75 58	11 18' "	36 02' 51 40' "	0'2500 0'3333 3'0000	0'7500 1'3333 4'0000	0'7906 1'3743 5'0000
27	B	$\begin{cases} -\frac{1}{1} \frac{10}{11} \\ -\frac{1}{10} \frac{11}{10} \\ -10'11 \end{cases}$	1'10'11 1'11'10 10'11'1	5 42' 5 11' 42 16	42 25 47 50' 86 09	5 11' 5 42' 84 17	42 16' 47 43' 84 48	3 51 "	42 09' 47 35 42 09	0'0909 0'1000 10'000	0'9091 1'1000 11'000	0'9136 1'1046 14'866
28	C	$\begin{cases} +\frac{1}{9} \frac{5}{9} \\ +\frac{1}{5} \frac{9}{5} \\ +59 \end{cases}$	159 195 591	11 18' 6 20' 29 03	29 32 61 05' 84 27	6 20' 11 18' 78 41	29 03' 60 56' 83 39	5 33 "	28 54' 60 28 "	0'1111 0'2000 5'0000	0'5556 1'8000 9'0000	0'5666 1'8110 10'295
29	D	$\begin{cases} -\frac{5}{9} \frac{7}{9} \\ -\frac{5}{7} \frac{9}{5} \\ -\frac{7}{5} \frac{9}{5} \end{cases}$	579 597 795	35 32' 29 03' 37 52	43 42' 55 47' 66 19	29 03' 35 32' 54 27	37 52' 52 07' 60 56	23 40' "	34 12' 46 17' "	0'5556 0'7143 1'4000	0'7778 1'2857 1'8000	0'9558 1'4708 2'2803

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ	
30	y	$\left\{ \begin{array}{l} -\frac{1}{2} \frac{3}{4} \\ -\frac{2}{3} \frac{4}{3} \\ -\frac{3}{2} 2 \end{array} \right.$	234 243 342	33° 41' 26 34 36 52	42° 02' 56 08 68 12	26° 34' 33 41 56 18	36° 52' 53 08 63 26	21° 48' " 47 58 33 51	33° 51' 47 58 "	0° 5000 0° 6667 1° 5000	0° 7500 1° 3333 2° 0000	0° 9014 1° 4907 2° 5000	
		H	$\left\{ \begin{array}{l} -\frac{1}{5} \frac{1}{2} \\ -\frac{1}{3} 2 \\ -36 \end{array} \right.$	136 163 361	18 26 9 28 26 34	27 47' 63 45 81 31	9 28 18 26 71 34	26 34 63 26 80 32	8 28 " 62 12 26 15	26 15 62 12 "	0° 1667 0° 3333 3° 0000	0° 5000 2° 0000 6° 0000	0° 5271 2° 0276 6° 7081
			E	$\left\{ \begin{array}{l} -\frac{7}{15} \frac{11}{5} \\ -\frac{7}{11} \frac{11}{5} \\ -\frac{11}{7} \frac{11}{5} \end{array} \right.$	7° 11' 15 7° 15' 11 11° 15' 7	32 28 25 01 36 15	41 00 56 23 69 22	25 01 32 28 57 31	36 15 53 45 64 59	20 37 " 49 00 33 36	33 36 49 00 "	0° 4666 0° 6364 1° 5714	0° 7333 1° 3636 2° 1429
F	$\left\{ \begin{array}{l} -\frac{3}{5} \frac{5}{7} \\ -\frac{3}{5} \frac{7}{3} \\ -\frac{5}{3} \frac{7}{3} \end{array} \right.$			357 375 573	30 58 23 12 35 32	39 47' 56 43 70 46	23 12 30 58 59 02	35 32 54 27 66 48	19 13 " 50 12 33 17	33 17 50 12 "	0° 4286 0° 6000 1° 6667	0° 7143 1° 4000 2° 3333	0° 8330 1° 5232 2° 8674

Zinkspath.

Hexagonal. Rhomboedrisch-hemiedrisch.

$$c = 0.8062 \quad \lg c = 990644 \quad \lg a_0 = 033212 \quad \lg p_0 = 973035 \quad a_0 = 2.1484 \quad p_0 = 0.5375 \quad (G_2)$$

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	o	o	0001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	a	$\infty 0$	1010	0° 00	90 00	"	90 00	"	90 00	"	∞	∞
3	δ	$-\frac{1}{2}$	1122	30 00	24 57	13 06	21 57	12 11	21 26	0° 2327	0° 4040	0° 4655
4	p'	+1	1121	"	42 57	24 57	38 52	19 55	36 10	0° 4654	0° 8062	0° 9309
5	φ'	-2	2241	"	61 45	42 57	58 11	26 08	49 43	0° 9309	1° 6124	1° 8618
6	A'	$-\frac{7}{2}$	7·7·14·2	"	72 56	58 27	70 29	28 33	55 53	1° 6291	2° 8217	3° 2582
7	m'	+4	4481	"	74 58	61 45	72 46	28 52	56 45	1° 8618	3° 2248	3° 7237
8	E'	-5	5·5·10·1	"	77 52	66 45	76 04	29 16	57 51	2° 3272	4° 0310	4° 6545
9	K:	+41	4151	10 53	67 54	24 57	67 32	10 05	65 29	0° 4654	2° 4186	2° 4630

Zinkosit.

Rhombisch.

$$a = 0.8928 \quad \lg a = 995076 \quad \lg a_0 = 980028 \quad \lg p_0 = 019972 \quad a_0 = 0.6314 \quad p_0 = 1.5838$$

$$c = 1.4141 \quad \lg c = 015048 \quad \lg b_0 = 984952 \quad \lg q_0 = 015048 \quad b_0 = 0.7072 \quad q_0 = 1.4141$$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	o	001	—	0° 00	0° 00	0° 00	0° 00	0° 00	o	o	o
2	e	01	011	0° 00	54 44	"	54 44	"	54 44	"	1° 4141	1° 4141
3	f	10	101	90 00	57 44	57 44	0 00	57 44	0 00	1° 5838	o	1° 5838

Zinkvitriol.

Rhombisch.

$a = 0.9804$	$\lg a = 999140$	$\lg a_0 = 024081$	$\lg p_0 = 975919$	$a_0 = 1.7410$	$p_0 = 0.5744$
$c = 0.5631$	$\lg c = 975059$	$\lg b_0 = 024941$	$\lg q_0 = 975059$	$b_0 = 1.7759$	$q_0 = 0.5631$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	a	∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	b	$\infty 0$	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
3	m	∞	110	45 34	"	"	90 00	45 34	44 26	1.0200	∞	"
4	f	$\infty 2$	120	27 01'	90 00	90 00	90 00	27 01'	62 58'	0.5100	"	"
5	v	01	011	0 00	29 23	0 00	29 23	0 00	29 23	0	0.5631	0.5631
6	r	02	021	"	48 24	"	48 24	"	48 24	"	1.1261	1.1261
7	n	10	101	90 00	29 52'	29 52'	0 00	29 52'	0 00	0.5744	0	0.5744
8	x	20	201	"	48 57'	48 57'	"	48 57'	"	1.1487	"	1.1487
9	z	1	111	45 34	38 49	29 52'	29 23	26 35'	26 02	0.5744	0.5631	0.8043
10	t	12	121	27 01'	51 39'	"	48 24	20 52'	44 19'	"	1.1262	1.2642
11	s	21	211	63 53	51 59	48 57'	29 23	45 01'	20 17'	1.1487	0.5631	1.2793

Zinn.

Tetragonal.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.3857$	$\lg c = 958625$	$\lg a_0 = 041375$	$a_0 = 2.5927$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	a	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	m	∞	110	45°00	90 00	90 00	90 00	45 00	45 00	1.0000	∞	∞
3	s	01	011	0 00	21 05'	0 00	21 05'	0 00	21 05'	0	0.3857	0.3857
4	t	03	031	"	49 10	"	49 10	"	49 10	"	1.1571	1.1571
5	p	1	111	45 00	28 36'	21 05'	21 05'	19 47'	19 47'	0.3857	0.3857	0.5455
6	r	3	331	"	58 34	49 10	49 10	37 06'	37 06'	1.1571	1.1571	1.6364

Zinnerz.

Tetragonal.

$\left. \begin{matrix} c \\ p_0 \end{matrix} \right\} = 0.6723$	$\lg c = 982756$	$\lg a_0 = 017244$	$a_0 = 1.4874$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	m	∞	110	45 00	"	90 00	"	45 00	45 00	1.0000	"	"
4	l	$\infty \frac{1}{2}$	9.10.0	41 59	"	"	"	41 59	48 01	0.9000	"	"
5	A	$\infty \frac{2}{3}$	780	41 11	"	"	"	41 11	48 49	0.8750	"	"
6	k	$\infty \frac{4}{3}$	340	36 52	"	"	"	36 52	53 08	0.7500	"	"

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
7	B	$\infty \frac{7}{5}$	570	35° 32'	90° 00'	90° 00'	90° 00'	35° 32'	54° 28'	0'7143	∞	∞
8	r	$\infty \frac{3}{2}$	230	33 41'	"	"	"	33 41'	56 18'	0'6667	"	"
9	h	$\infty 2$	120	26 34	"	"	"	26 34	63 26	0'5000	"	"
10	e	01	011	0 00	33 54'	0 00	33 54'	0 00	33 54'	0	0'6723	0'6723
11	w	05	051	"	73 26	"	73 26	"	73 26	"	3'3614	3'3614
12	p	$\frac{1}{4}$	114	45 00	13 22	9 32'	9 32'	9 24'	9 24'	0'1680	0'1680	0'2377
13	y	$\frac{3}{4}$	335	"	29 42	21 58	21 58	20 30'	20 30'	0'4033	0'4033	0'5704
14	δ	$\frac{1}{2}$	223	"	32 22	24 08'	24 08'	22 14'	22 14'	0'4482	0'4482	0'6338
15	s	1	111	"	43 33	33 54'	33 54'	29 09'	29 09'	0'6723	0'6723	0'9507
16	q	$\frac{5}{6}$	665	"	48 46	38 53'	38 53'	32 07'	32 07'	0'8067	0'8067	1'1409
17	ϱ	$\frac{2}{3}$	221	"	62 15'	53 21'	53 21'	38 44'	38 44'	1'3446	1'3446	5'7045
18	ϑ	$\frac{5}{6}$	552	"	67 11	59 15	59 15	40 40'	40 40'	1'6807	1'6807	2'3768
19	i	5	551	"	78 07	73 26	73 26	43 47	43 47	3'3614	3'3614	4'7537
20	n	6	661	"	80 03'	76 04'	76 04'	44 08'	44 08'	4'0337	4'0337	5'7044
21	x	7	771	"	81 27	78 00	78 00	44 22	44 22	4'7060	4'7060	6'6552
22	σ	12'12	12'12'1	"	84 59'	82 56	82 56	44 47	44 47	8'0675	8'0675	11'409
23	ζ	18'18	18'18'1	"	86 39'	85 16'	85 16'	44 54	44 54	12'1011	12'1011	17.113
24	g	$\frac{1}{10}$	1'10'10	5 42'	34 02'	3 51	33 55	3 11'	33 51	0'0672	0'0672	0'6756
25	t	$\frac{1}{3}$	133	18 26	35 19'	12 38	"	10 32	33 16	0'2241	"	0'7087
26	b	$\frac{1}{2}$	122	26 34	36 56	18 35	"	15 35	32 30'	0'3361	"	0'7516
27	μ	$\frac{1}{6}$	676	40 36	45 56	33 55	38 06'	27 52'	33 03'	0'6723	0'7843	1'0330
28	λ	13	131	18 26	64 48'	"	63 37'	16 37'	59 08'	"	2'0169	2'1260
29	d	$\frac{3}{2}$	342	"	54 47'	24 08'	53 21'	14 58'	50 49'	0'4482	1'3446	1'4173
30	z	23	231	33 41'	67 35	53 21'	63 37'	30 51	50 17	1'3446	2'0169	2'4240
31	C	$\frac{1}{2} \frac{1}{4}$	1'3'12	18 26	10 03	3 12'	9 32'	3 09'	9 31'	0'0560	0'1680	0'1772
32	ξ	$\frac{6}{7}$	671	40 36	80 50	76 04'	78 00	39 58'	48 33	4'0337	4'7061	6'1983
33	E	78	781	41 11	82 02	78 00	79 28	40 42'	48 11	4'7061	5'3784	7'1467
34	r	$\frac{5}{2} \frac{7}{3}$	572	35 32	70 55'	59 15	66 58'	33 19	50 16	1'6807	2'3530	2'8917
35	Θ	$\frac{1}{2} \frac{1}{2} \frac{3}{3}$	11'13'2	40 14	80 05'	74 52	77 06'	39 31	48 45'	3'6976	4'3699	5'7242
36	f	$\frac{3}{5} \frac{8}{5}$	385	20 33'	48 57'	21 58	47 05'	15 21'	44 56	0'4034	1'0757	1'1488
37	D	$\frac{7}{5} \frac{7}{6}$	14'21'18	33 41'	43 18'	27 36'	38 06'	22 22	34 48	0'5229	0'7843	0'9427

Zinnkies.

Regulär.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 001 \\ 010 \end{array} \right.$	— 0° 00'	0° 00' 90 00	0° 00' "	0° 00' 90 00	0° 00' "	0° 00' 90 00	0 "	0 ∞	0 ∞
2	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	$\left\{ \begin{array}{l} 011 \\ 110 \end{array} \right.$	" 45 00	45 00 90 00	" 90 00	45 00 90 00	" 45 00	45 00 "	" 1'0000	1'0000 ∞	1'0000 ∞

Zinnober.

Hexagonal. Trapezoedrisch-tetartoedrisch.

$c = 1.9837$	$\lg c = 0.29747$	$\lg a_0 = 994109$	$\lg p_0 = 0.12138$	$a_0 = 0.8732$	$p_0 = 1.3225$	(G_1)
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N _o .	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	χ (Prismen) (x:y)	y	d = $\text{tg } \varrho$
1	o	o	0001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	M	∞0	1010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	A	∞	1120	30 00	"	90 00	"	30 00	60 00	0.5773	"	"
4	a	$+\frac{1}{15}0$	1'0.1'15	0 00	5 02'	0 00	5 02'	0 00	5 02'	o	0.0882	0.0882
5	b'	$-\frac{1}{12}0$	1'0.1'12	"	6 17'	"	6 17'	"	6 17'	"	0.1102	0.1102
6	ψ'	$-\frac{1}{9}0$	1019	"	8 21'	"	8 21'	"	8 21'	"	0.1469	0.1469
7	b b'	$+\frac{1}{8}0$	1018	"	9 23	"	9 23	"	9 23	"	0.1653	0.1653
8	b'	$-\frac{1}{7}0$	1017	"	10 42	"	10 42	"	10 42	"	0.1889	0.1889
9	e'	$-\frac{1}{5}0$	1015	"	14 49	"	14 49	"	14 49	"	0.2645	0.2645
10	c c'	$+\frac{1}{4}0$	1014	"	18 17'	"	18 17'	"	18 17'	"	0.3306	0.3306
11	η η'	$+\frac{3}{10}0$	3'0.3'10	"	21 38'	"	21 38'	"	21 38'	"	0.3967	0.3967
12	d d'	$+\frac{1}{3}0$	1013	"	23 47'	"	23 47'	"	23 47'	"	0.4387	0.4387
13	f'	$-\frac{5}{14}0$	5'0.5'14	"	25 17	"	25 17	"	25 17	"	0.4723	0.4723
14	e'	$-\frac{3}{8}0$	3038	"	26 22'	"	26 22'	"	26 22'	"	0.4959	0.4959
15	ff	$+\frac{2}{5}0$	2025	"	27 52'	"	27 52'	"	27 52'	"	0.5290	0.5290
16	a	$+\frac{4}{9}0$	4049	"	30 26'	"	30 26'	"	30 26'	"	0.5878	0.5878
17	g g'	$+\frac{1}{2}0$	1012	"	33 28'	"	33 28'	"	33 28'	"	0.6612	0.6612
18	i'	$-\frac{1}{9}0$	10'0.10'19	"	34 50'	"	34 50'	"	34 50'	"	0.6960	0.6960
19	w'	$-\frac{5}{9}0$	5059	"	36 18'	"	36 18'	"	36 18'	"	0.7347	0.7347
20	ρ'	$+\frac{3}{5}0$	3035	"	38 26	"	38 26	"	38 26	"	0.7935	0.7935
21	h h'	$+\frac{2}{3}0$	2023	"	41 24	"	41 24	"	41 24	"	0.8816	0.8816
22	γ	$+\frac{7}{9}0$	7079	"	45 48'	"	45 48'	"	45 48'	"	1.0286	1.0286
23	i i'	$+\frac{4}{5}0$	4045	"	46 37	"	46 37	"	46 37	"	1.0580	1.0580
24	a a'	± 10	1011	"	52 54	"	52 54	"	52 54	"	1.3225	1.3225
25	ε	$+\frac{10}{9}0$	10'0.10'9	"	55 46	"	55 46	"	55 46	"	1.4694	1.4694
26	η	$+\frac{6}{5}0$	6065	"	57 47	"	57 47	"	57 47	"	1.5869	1.5869
27	k k'	$+\frac{5}{4}0$	5054	"	58 49'	"	58 49'	"	58 49'	"	1.6531	1.6531
28	l l'	$+\frac{4}{3}0$	4043	"	60 26'	"	60 26'	"	60 26'	"	1.7633	1.7633
29	ν f'	$+\frac{13}{9}0$	13'0.13'9	"	62 22	"	62 22	"	62 22	"	1.9102	1.9102
30	l'	$-\frac{5}{3}0$	5053	"	65 36	"	65 36	"	65 36	"	2.2041	2.2041
31	m m'	$+\frac{15}{9}0$	16'0.16'9	"	66 57'	"	66 57'	"	66 57'	"	2.3511	2.3511
32	m'	$-\frac{9}{2}0$	9095	"	67 13	"	67 13	"	67 13	"	2.3804	2.3804
33	n n'	± 20	2021	"	69 17'	"	69 17'	"	69 17'	"	2.6449	2.6449
34	φ'	$-\frac{5}{2}0$	5052	"	73 10	"	73 10	"	73 10	"	3.3062	3.3062
35	ω ω'	± 30	3031	"	75 51	"	75 51	"	75 51	"	3.9674	3.9674
36	θ	$+\frac{10}{3}0$	10'0.10'3	"	77 13	"	77 13	"	71 13	"	4.4082	4.4082

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
37	n'	$-\frac{7}{2}0$	7072	0°00	77°48'	0°00	77°48'	0°00	77°48'	0	4'6286	4'6286
38	p'	$-\frac{3}{2}0$	32'0'32'9	"	77 59'	"	77 59'	"	77 59'	"	4'7021	4'7021
39	q q'	± 40	4041	"	79 17'	"	79 17'	"	79 17'	"	5'2898	5'2898
40	r r'	$\pm \frac{9}{2}0$	9092	"	80 27'	"	80 27'	"	80 27'	"	5'9510	5'9510
41	λ λ'	± 50	5051	"	81 24	"	81 24	"	81 24	"	6'6123	6'6123
42	s'	$-\frac{1}{3}0$	16'0'16'3	"	81 56	"	81 56	"	81 56	"	7'0531	7'0531
43	π π'	± 60	6061	"	82 49	"	82 49	"	82 49	"	7'9308	7'9308
44	τ τ'	± 70	7071	"	83 50	"	83 50	"	83 50	"	9'2572	9'2572
45	t t'	± 80	8081	"	84 36	"	84 36	"	84 36	"	10'580	10'580
46	σ	$+10'0$	10'0'10'1	"	85 40'	"	85 40'	"	85 40'	"	13'225	13'225
47	τ	$-11'0$	11'0'11'1	"	86 04	"	86 04	"	86 04	"	14'547	14'547
48	v'	$-16'0$	16'0'16'1	"	87 17'	"	87 17'	"	87 17'	"	21'159	21'159
49	B	$\frac{1}{2}0$	1'1'2'20	30 00	6 32	3 16'	5 40	3 15'	5 39'	0'0573	0'0992	0'1145
50	C	$\frac{1}{6}0$	1126	"	20 53'	10 48'	18 17'	10 16'	17 59'	0'1909	0'3306	0'3817
51	N	$\frac{1}{4}$	1124	"	29 48	15 18'	26 22'	14 23	25 29'	0'2863	0'4959	0'5726
52	P	$\frac{1}{3}$	1123	"	37 22	20 53'	33 28'	17 40	31 42'	0'3818	0'6612	0'7635
53	G	$\frac{7}{8}$	7'7'14'18	"	41 41'	24 00'	37 39	19 25'	35 10'	0'4455	0'7714	0'8908
54	x	$\frac{2}{5}$	2245	"	42 30	24 37	38 26	19 44'	35 48'	0'4581	0'7935	0'9162
55	J	$\frac{5}{8}$	5'5'10'8	"	55 04	35 35'	51 06'	24 12	45 14	0'7158	1'2398	1'4316
56	y	$\frac{2}{3}$	2243	"	56 47	37 22	52 54	24 43'	46 25'	0'7635	1'3224	1'5270
57	u	1	1121	"	66 25	48 52'	63 15	27 16'	52 32	1'1453	1'9837	2'2905
58	ξ	2	2241	"	77 41	66 25	75 51	29 14'	57 47'	2'2905	3'9673	4'5811
59	w	$+1\frac{1}{2}$	2132	19 06'	60 15	29 48	58 49'	16 30'	55 07	0'5726	1'6531	1'7494
60	F	$+1\frac{2}{3}$	5385	21 47	61 37'	34 30	59 49	19 03'	54 47'	0'6872	1'7192	1'8514
61	R'	$-\frac{3}{2}\frac{1}{2}$	3142	13 54	67 14'	29 48	66 38	12 48	63 32	0'5726	2'3143	2'3841
62	S'	$-\frac{8}{5}\frac{2}{5}$	8'2'10'5	10 53'	67 35	24 37	67 13	10 03'	65 12	0'4581	2'3804	2'4241
63	κ	$+\frac{4}{3}\frac{2}{3}$	4263	19 06'	66 47'	37 22	65 36	17 30'	60 17	0'7635	2'2041	2'3326
64	ζ'	-42	4261	"	81 52	66 25	81 24	18 54'	69 17'	2'2905	6'6124	6'9979
65	z	$+\frac{5}{7}\frac{1}{7}$	5167	8 57	46 27	9 17'	46 06	6 28'	45 43	0'1636	1'0390	1'0519
66	δ	$+\frac{5}{13}\frac{3}{13}$	5'3'8'13	21 47	35 27	14 48	33 28'	12 26	32 35'	0'2643	0'6612	0'7121
67	T'	$-\frac{1}{2}\frac{1}{3}$	3251	23 25	43 51	20 53'	41 24	15 58'	39 28'	0'3816	0'8816	0'9608
68	D	$+\frac{2}{7}\frac{1}{7}$	2137	19 06'	26 33'	9 17'	25 17	8 25	24 59'	0'1636	0'4723	0'4998
69	H'	$-\frac{3}{10}\frac{1}{10}$	3'1'4'10	13 54	25 29'	6 32	24 50	5 56	24 41'	0'1145	0'4629	0'4768
70	E	$+\frac{5}{13}\frac{1}{13}$	5'1'6'13	8 57	29 31'	5 02	29 13'	4 24	29 08	0'0881	0'5595	0'5664
71	μ'	$-\frac{1}{7}\frac{4}{7}$	12'4'16'17	13 54	48 17'	15 05	47 26'	10 20	46 26'	0'2695	1'0891	1'1219
72	L	$+\frac{6}{23}\frac{4}{23}$	6'4'10'23	23 25	26 37'	11 16	24 42	10 15'	24 17	0'1992	0'4600	0'5012

Zirkon.

Tetragonal.

$\frac{c}{p_0}$	$\lg c = 980638$	$\lg a_0 = 019362$	$a_0 = 1.5618$
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No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	a	0∞	010	0°00	90 00	”	90 00	”	90 00	”	∞	∞
3	m	∞	110	45 00	”	90 00	”	45 00	45 00	1.0000	”	”
4	e	01	011	0 00	32 38	0 00	32 38	0 00	32 38	0	0.6403	0.6403
5	F	$\frac{1}{3}$	113	45 00	16 47	12 03	12 03	11 47	11 47	0.2134	0.2134	0.3018
6	β	$\frac{1}{2}$	112	”	24 21	17 45	17 45	16 57	16 57	0.3201	0.3201	0.4527
7	s	1	111	”	42 09	32 38	32 38	28 20	28 20	0.6403	0.6403	0.9055
8	G	$\frac{5}{3}$	553	”	56 28	46 51	46 51	36 07	36 07	1.0672	1.0672	1.5092
9	φ	$\frac{7}{4}$	774	”	57 44	48 15	48 15	36 43	36 43	1.1205	1.1205	1.5847
10	ϱ	2	221	”	61 05	52 01	52 01	38 14	38 14	1.2806	1.2806	1.8110
11	π	3	331	”	69 47	62 30	62 30	41 34	41 34	1.9209	1.9209	2.7165
12	ι	5	551	”	77 32	72 39	72 39	43 40	43 40	3.2014	3.2014	4.5275
13	λ	13	131	18 26	63 43	32 38	62 30	16 28	58 16	0.6403	1.9209	2.0248
14	ψ	14	141	14 02	69 15	”	68 40	13 06	65 07	”	2.5612	2.6400
15	ω	15	151	11 18	72 58	”	72 39	10 48	69 39	”	3.2015	3.2649

Zoisit.

Rhombisch.

$a = 0.6196$	$\lg a = 979211$	$\lg a_0 = 025694$	$\lg p_0 = 974306$	$a_0 = 1.8069$	$p_0 = 0.5334$
$c = 0.3429$	$\lg c = 953517$	$\lg b_0 = 046483$	$\lg q_0 = 953517$	$b_0 = 2.9163$	$q_0 = 0.3429$

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d = tge
1	b	0∞	010	0°00	90°00	0°00	90°00	0°00	90°00	0	∞	∞
2	a	∞0	100	90 00	”	90 00	0 00	90 00	0 00	∞	0	”
3	k	3∞	310	78 20	”	”	90 00	78 20	11 40	4.8419	∞	”
4	q	2∞	210	72 47	”	”	”	72 47	17 13	3.2279	”	”
5	n	$\frac{3}{2}$ ∞	530	69 36	”	”	”	69 36	20 23	2.6900	”	”
6	s	$\frac{5}{3}$ ∞	320	67 33	”	”	”	67 33	22 26	2.4210	”	”
7	m	∞	110	58 13	”	”	”	58 13	31 47	1.6140	”	”
8	r	∞2	120	38 54	”	”	”	38 54	51 06	0.8070	”	”

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
9	t	$\infty 3$	130	28° 17'	90° 00'	90° 00'	90° 00'	28° 17'	61° 43'	0° 53' 80	∞	∞
10	l	$\infty 4$	140	21 58'	"	"	"	21 58'	68 01'	0° 40' 35	"	"
11	f	01	011	0 00	18 55'	0 00	18 55'	0 00	18 55'	0	0° 34' 29	0° 34' 29
12	u	02	021	"	34 26'	"	34 26'	"	34 26'	"	0° 68' 58	0° 68' 58
13	x	04	041	"	53 54'	"	53 54'	"	53 54'	"	1° 37' 16	1° 37' 16
14	e	06	061	"	64 04'	"	64 04'	"	64 04'	"	2° 05' 74	2° 05' 74
15	d	10	101	90 00	28 57'	28 57'	0 00	28 57'	0 00	0° 55' 34	0	0° 55' 34
16	o	1	111	58 13	33 04	"	18 55'	27 38	16 42	"	0° 34' 29	0° 65' 10
17	v	12	121	38 54	41 23'	"	34 26'	24 32	30 58	"	0° 68' 58	0° 88' 13
18	p	13	131	28 17	49 26	"	45 48'	21 05'	41 59'	"	1° 02' 87	1° 16' 81
19	z	16	161	15 03'	64 51'	"	64 04'	13 36	60 56'	"	2° 05' 74	2° 13' 05

Zunyt.

Regulär. Tetraedrisch-hemiedrisch.

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	X (Prismen) (x : y)	y	d =tg ϱ
1	c	$\left\{ \begin{array}{l} 0 \\ 0\infty \end{array} \right.$	001	—	0° 00'	0° 00'	0° 00'	0° 00'	0° 00'	0	0	0
			010	0° 00'	90 00	"	90 00	"	90 00	"	∞	∞
2	d	$\left\{ \begin{array}{l} 01 \\ \infty \end{array} \right.$	011	"	45 00	"	45 00	"	45 00	"	1° 00' 00	1° 00' 00
			110	45 00	90 00	90 00	90 00	45 00	"	1° 00' 00	∞	∞
3	pp'	± 1	111	"	54 44	45 00	45 00	35 16	35 16	"	1° 00' 00	1° 41' 42

Anhang.

Bemerkungen und Correcturen.

Bemerkungen und Correcturen.¹⁾

Allgemein.

Im Hexagonalen System sind die vierzahligen (Bravais) Symbole in directer Verknüpfung mit den Symbolen des Verf. in der gewählten Aufstellung. So z. B. mit den G_1 beim Quarz, Apatit . . . , mit den G_2 bei Calcit, Rothgiltigerz . . . , so zwar, dass $p q (G_1 \text{ resp. } G_2) = p \cdot q \cdot p + q \cdot 1$ ist. Im Index, wo die G_1 und G_2 jedesmal beide abgedruckt sind, wurde überall das zu $p q (G_1)$ gehörige vierzahlige Symbol gegeben. Man wolle dies beachten, um Irrthümer zu vermeiden.

Berechnung des Winkels von Fläche zu Fläche mit Hilfe der Winkeltabelle.

(Zuzufügen S. 5.)

Aufgabe. Gegeben 2 Flächen $a_1 a_2$ durch ihre Positionswinkel $\varphi_1 \varrho_1$ und $\varphi_2 \varrho_2$.

Gesucht $\sphericalangle a_1 a_2 = \alpha$.

Auflösung. Es ist in dem sphärischen Dreieck Fig. 15 nach dem Cosinus-Satz:

$$\cos \alpha = \cos \varrho_1 \cos \varrho_2 + \sin \varrho_1 \sin \varrho_2 \cos (\varphi_2 - \varphi_1)$$

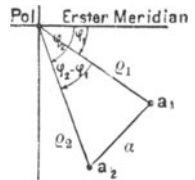


Fig. 15.

Diese Formel gilt für alle Fälle. In den meisten speciellen Fällen vereinfacht sich die Rechnung.

Specialfälle.

$\varphi_2 - \varphi_1 = 60^\circ$ (häufig im hexagonalen System). $\cos \alpha = \cos \varrho_1 \cos \varrho_2 + \frac{1}{2} \sin \varrho_1 \sin \varrho_2$
 $\varphi_2 - \varphi_1 = 90^\circ$ (häufiger Fall). $\cos \alpha = \cos \varrho_1 \cos \varrho_2$.

Vertauschung der Projectionsebene $\perp c$ mit der $\perp a$ oder $\perp b$. (Zuzufügen S. 8.)

Berechnung von $\varphi' \varrho'$ und $\varphi'' \varrho''$ aus $\varphi \varrho$. Dazu dienen die Formeln:

I.
$$\begin{cases} \cos \varrho' = \sin \varphi \sin \varrho \\ \operatorname{tg} \varphi' = \cos \varphi \operatorname{tg} \varrho \end{cases}$$

II.
$$\begin{cases} \cos \varrho'' = \cos \varphi \sin \varrho \\ \operatorname{ctg} \varphi'' = \sin \varphi \operatorname{tg} \varrho \end{cases}$$

Die Formel II können wir auch schreiben: II'.

$$\begin{cases} \cos \varrho'' = \sin (90 - \varphi) \sin \varrho \\ \operatorname{tg} (90 - \varphi'') = \cos (90 - \varphi) \operatorname{tg} \varrho \end{cases}$$

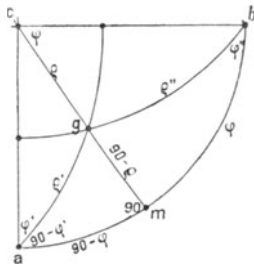


Fig. 16.

II' sieht aus wie I, nur tritt $90 - \varphi$, $90 - \varphi''$ an Stelle aller $\varphi \varphi'$.

Beweis. Es ist in dem rechtwinkligen sphärischen Dreieck $a m g$ (Fig. 11 und 16):

$\cos \varrho' = \sin \varphi \sin \varrho$
 $\sin (90 - \varphi') = \operatorname{tg} (90 - \varrho) \operatorname{ctg} (90 - \varphi)$
 oder $\cos \varphi' = \operatorname{ctg} \varrho \operatorname{tg} \varphi$
 daher $\operatorname{tg} \varphi' = \cos \varphi \operatorname{tg} \varrho$

In $\triangle g b m$ (Fig. 11 und 16) ist:

$\cos \varrho'' = \cos \varphi \sin \varrho$
 $\sin \varphi = \operatorname{ctg} \varphi'' \operatorname{tg} (90 - \varrho)$
 $= \operatorname{ctg} \varphi'' \operatorname{ctg} \varrho$
 $\operatorname{tg} \varphi'' = \sin \varphi \operatorname{tg} \varrho$

¹⁾ Die Correcturen betreffen hauptsächlich die zwei am eingehendsten benutzten Bücher, den Index des Verf. und E. S. Dana's System. 1892.

Berechnung der Elemente. Triklines System. In der Schrift über das zweikreisige Goniometer (Zeitschr. Kryst. 1893. 22. 221) wurden zur Berechnung von $p_0 q_0 \nu$ keine unabhängigen Formeln gegeben. Dazu bieten sich folgende für $h = 1$.

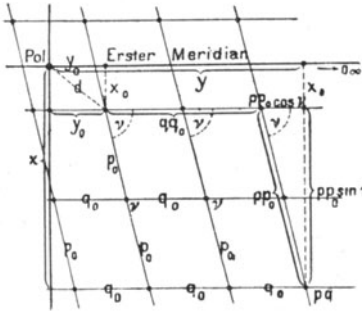


Fig. 17.

Wir hatten für drei Flächen $p_1 q_1; p_2 q_2; p_3 q_3$ mit den rechtwinkligen Coordinaten $x_1 y_1; x_2 y_2; x_3 y_3$ gefunden:

$$\left. \begin{aligned} x_1 &= x_0 + p_1 p_0 \sin \nu \\ x_2 &= x_0 + p_2 p_0 \sin \nu \end{aligned} \right\} \text{daraus: } \boxed{p_0 \sin \nu = \frac{x_1 - x_2}{p_1 - p_2}}$$

Ferner hatten wir:

$$\begin{aligned} p_1 p_0 \cos \nu + q_1 q_0 + y_0 &= y_1 \\ p_2 p_0 \cos \nu + q_2 q_0 + y_0 &= y_2 \\ p_3 p_0 \cos \nu + q_3 q_0 + y_0 &= y_3 \end{aligned}$$

Betrachten wir hierin $p_0 \cos \nu, q_0, y_0$ als Unbekannte, so lässt sich deren Werth, ausgedrückt in den Symbolzahlen $p_1 q_1, p_2 q_2, p_3 q_3$ und den Messungsergebnissen $y_1 y_2 y_3$ in Gestalt von Determinanten anschieben:

$$q_0 = \frac{\begin{vmatrix} p_1 y_1 & 1 \\ p_2 y_2 & 1 \\ p_3 y_3 & 1 \end{vmatrix}}{\begin{vmatrix} p_1 q_1 & 1 \\ p_2 q_2 & 1 \\ p_3 q_3 & 1 \end{vmatrix}} = \frac{p_1(y_2 - y_3) + p_2(y_3 - y_1) + p_3(y_1 - y_2)}{p_1(q_2 - q_3) + p_2(q_3 - q_1) + p_3(q_1 - q_2)} = \frac{(p_1 - p_2)(y_1 - y_3) - (p_1 - p_3)(y_1 - y_2)}{(p_1 - p_2)(q_1 - q_3) - (p_1 - p_3)(q_1 - q_2)}$$

$$p_0 \cos \nu = \frac{\begin{vmatrix} y_1 q_1 & 1 \\ y_2 q_2 & 1 \\ y_3 q_3 & 1 \end{vmatrix}}{\begin{vmatrix} p_1 q_1 & 1 \\ p_2 q_2 & 1 \\ p_3 q_3 & 1 \end{vmatrix}} = \frac{y_1(q_2 - q_3) + y_2(q_3 - q_1) + y_3(q_1 - q_2)}{p_1(q_2 - q_3) + p_2(q_3 - q_1) + p_3(q_1 - q_2)} = \frac{(y_1 - y_2)(q_1 - q_3) - (y_1 - y_3)(q_1 - q_2)}{(p_1 - p_2)(q_1 - q_3) - (p_1 - p_3)(q_1 - q_2)}$$

$$y_0 = \frac{\begin{vmatrix} p_1 q_1 y_1 \\ p_2 q_2 y_2 \\ p_3 q_3 y_3 \end{vmatrix}}{\begin{vmatrix} p_1 q_1 & 1 \\ p_2 q_2 & 1 \\ p_3 q_3 & 1 \end{vmatrix}} = \frac{p_1(q_2 y_3 - q_3 y_2) + p_2(q_3 y_1 - q_1 y_3) + p_3(q_1 y_2 - q_2 y_1)}{p_1(q_2 - q_3) + p_2(q_3 - q_1) + p_3(q_1 - q_3)}$$

daraus und aus obiger Formel für $p_0 \sin \nu$ folgt:

$$\operatorname{tg} \nu = \frac{p_0 \sin \nu}{p_0 \cos \nu}; \quad \text{dann } p_0 \text{ oder } p_0 = \sqrt{(p_0 \sin \nu)^2 + (p_0 \cos \nu)^2}$$

Für die **Parallelzonen** vereinfachen sich die Formeln. Wir haben:

Quer-Parallelzone: $x_1 = x_2$ und $p_1 = p_2$. Daher: $q_0 = \frac{y_1 - y_2}{q_1 - q_2}$

Längs-Parallelzone: $q_1 = q_2$. Daher: $p_0 \cos \nu = \frac{y_1 - y_2}{p_1 - p_2}$

Polarstellen am zweikreisigen Goniometer. Zeitschr. Kryst. 1895. 24. 612 nach Zeile 14 vo ist zuzufügen:

Anmerkung. Diese Art der Näherung gilt nur dann, wenn a_2 zwischen $a_1 a_3$ liegt, d. h. im Winkel $a_1 a_3 < 180^\circ$. Liegt a_2 ausserhalb, d. h. im $\sphericalangle a_1 a_3 > 180^\circ$, so ist statt $h' = h_1 + h_3 - h_2$ zu bilden $h' = \frac{1}{3}(h_1 + h_2 + h_3)$. Im Uebrigen ist das Verfahren das gleiche.

Beweis. Fall 1. a_2 zwischen $a_1 a_3$. Es sei im stereographischen Bild Fig. 18 K der Grundkreis, R der Ring mit $a_1 a_2 a_3$. f sei der gesuchte Pol. Wir stellen mit den Wiegeschlitten $W_1 W_2$ den Krystall so ein, dass $a_1 a_3$ gleiche Ablesung am Horizontalkreis H haben. $h_1 = h_0 + \varrho_1 = h_3 = h_0 + \varrho_3$. $\varrho_1 = \varrho_3$ ist der Abstand von dem unrichtig eingestellten Pol f' oder f'' . f' resp. f'' liegt auf mfn, der Symmetrielinie zu $a_1 a_3$. Wir haben nun zwei Fälle:

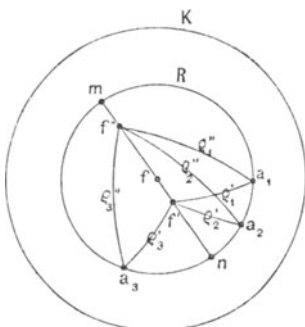


Fig. 18.

A. f' liege zu nahe an $a_1 a_3$, dann ist $\varrho'_2 = f' a_2 < \varrho'_1$. Nun soll f' nach f rücken, d. h. das gemeinsame ϱ resp. $h = h_0 + \varrho$ soll grösser werden. Das ist der Fall, wenn wir für $h = h_0 + \varrho'_1$ bilden:
 $h' = h_1 + h_3 - h_2 = h_0 + \varrho'_1 + \varrho'_3 - \varrho'_2$, denn $\varrho'_3 - \varrho'_2 > 0$, nicht aber durch $\frac{1}{3}(h_1 + h_2 + h_3) = h_0 + \frac{1}{3}(\varrho'_1 + \varrho'_2 + \varrho'_3)$, denn $\frac{1}{3}(\varrho'_1 + \varrho'_2 + \varrho'_3) < \varrho'_1$.

B. Der unrichtig eingestellte Pol liege in f'' ; zu weit von $a_1 a_3$. Dann ist $\varrho''_1 = \varrho''_3 < \varrho''_2$. Damit f'' sich f nähere, soll $h_1 = h_0 + \varrho''_1$ kleiner werden. Das geschieht durch Bildung von:

$$h' = h_1 + h_3 - h_2 = h_0 + \varrho''_1 + \varrho''_3 - \varrho''_2, \text{ denn } \varrho''_3 - \varrho''_2 < 0,$$

nicht aber durch: $\frac{1}{3}(h_1 + h_2 + h_3) = h_0 + \frac{1}{3}(\varrho''_1 + \varrho''_2 + \varrho''_3)$, denn $\frac{1}{3}(\varrho''_1 + \varrho''_2 + \varrho''_3) > \varrho''_1$

Fall 2. a_2 ausserhalb $a_1 a_3$ (Fig. 19). Wir stellen $a_1 a_3$ auf gleiche Poldistanz $\varrho'_1 = \varrho'_3$ ein. Der hierbei unrichtig eingestellte Pol liegt auf mfn, der Symmetrielinie zu $a_1 a_3$ und zwar in f' diesseits oder f'' jenseits des richtigen Pols f . Wir haben wieder zwei Fälle:

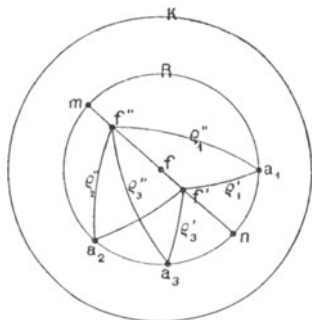


Fig. 19.

A. f' liege zu nahe an $a_1 a_3$; dann ist $\varrho'_2 = f' a_2 > \varrho'_3$. f' soll sich f nähern, d. h. ϱ'_1 resp. $h_1 = h_0 + \varrho_1$ soll bei Verschiebung von f auf mn grösser werden. Das geschieht, indem wir für $h = h_0 + \varrho_1$ bilden:

$$h' = \frac{1}{3}(h_1 + h_2 + h_3) = h_0 + \frac{1}{3}(\varrho'_1 + \varrho'_2 + \varrho'_3); \text{ denn es ist:}$$

$$\frac{1}{3}(\varrho'_1 + \varrho'_2 + \varrho'_3) > \varrho'_3; \text{ nicht aber durch}$$

$$h_1 + h_2 - h_3 = h_0 + \varrho_1 + \varrho_3 - \varrho_2; \text{ denn } \varrho_1 - \varrho_2 < 0.$$

B. Der unrichtig eingestellte Pol liege in f'' , zu weit von $a_1 a_3$. Dann ist $\varrho''_1 = \varrho''_3 > \varrho''_2$. Damit f'' sich f nähere, soll $h_1 = h_0 + \varrho''_1$ kleiner werden. Dies geschieht durch Bildung von:

$$h' = \frac{1}{3}(h_1 + h_2 + h_3) = h_0 + \frac{1}{3}(\varrho''_1 + \varrho''_2 + \varrho''_3); \text{ denn } \frac{1}{3}(\varrho''_1 + \varrho''_2 + \varrho''_3) < \varrho''_1$$

nicht aber durch: $h_1 + h_3 - h_2 = h_0 + \varrho_1 + \varrho_3 - \varrho_2$; denn $\varrho_3 - \varrho_2 > 0$

Zonengleichung. Index 1, 24 ist zuzufügen:

Die Gleichung einer Zone in Symbolen p q, d. h. in Coordinaten des gnomonischen Projectionspunktes, ist die Gleichung einer Geraden in der Ebene. Sie lässt sich in der Form schreiben:

$$Z = a p + b q = 1 \text{ oder } A p + B q = C$$

Dabei sind $\frac{1}{a}, \frac{1}{b}$ die Parameter der Zone d. h. die Abschnitte auf den Coordinaten-Axen, gemessen in den Einheiten p_0, q_0 . a b sind rationale Zahlen, A B C ganze Zahlen. $\bar{a} \bar{b}$ sind die Coordinaten des Zonen-(Kanten-)Punktes in Linear-Projection. $[\bar{a} \bar{b}]$ nennen wir das lineare Zonensymbol.¹⁾

Eine Fläche $p_1 q_1$ liegt in Zone Z, wenn die Zahlen $p_1 q_1$, für p q eingesetzt, der Gleichung genügen.

Beisp. $\frac{1}{4} \frac{3}{4}$ liegt in Zone: $p + q = 1$, denn es ist $\frac{1}{4} + \frac{3}{4} = 1$
 ferner in Zone: $7p - q = 1$, " $7 \times \frac{1}{4} - \frac{3}{4} = 1$
 und in Zone: $\frac{8}{5}p + \frac{4}{5}q = 1$ } " $8 \times \frac{1}{4} + 4 \times \frac{3}{4} = 5$
 oder $8p + 4q = 5$

Jede Fläche liegt in ∞ vielen Zonen. Zwei Flächen bestimmen eine Zone.

Aufgabe. Gegeben Zwei Flächen $p_1 q_1$ und $p_2 q_2$.

Gesucht die Zonengleichung d. i. a und b.

Auflösung. Wir setzen in Gleichung $ap + bq = 1$ die Werthe $p_1 q_1$ resp. $p_2 q_2$ ein.

Wir erhalten: $ap_1 + bq_1 = 1$ } und lösen nach a und b auf.
 $ap_2 + bq_2 = 1$ }

Beisp. $p_1 q_1 = \frac{1}{4} \frac{3}{4}$ | $a \cdot \frac{1}{4} + b \cdot \frac{3}{4} = 1$ | $a + 3b = 4$ } $a = 7$ | $Z = 7p - q = 1$
 $p_2 q_2 = \frac{1}{5} \frac{2}{5}$ | $a \cdot \frac{1}{5} + b \cdot \frac{2}{5} = 1$ | $a + 2b = 5$ } $b = -1$

Im Schnitt zweier Zonen liegt eine Fläche.

Aufgabe. Gegeben zwei Zonen: $a_1 p + b_1 q = 1$ } **Gesucht** die beiden Zonen gemein-
 $a_2 p + b_2 q = 1$ } same Fläche.

Auflösung. Wir berechnen p und q aus den zwei Gleichungen, so ist pq das Symbol der Fläche.

Beisp. $7p - q = 1$ } $p = \frac{1}{4}$ | $\frac{1}{4} \frac{3}{4}$ ist das Symbol der in beiden Zonen liegenden Fläche.
 $p + q = 1$ } $q = \frac{3}{4}$

Lang's Regel der kreuzweisen Multiplication (Lang, Krystallogr. 1866. 26) ergibt sich aus obigen Gleichungen in folgender Weise:

Unser Zonensymbol ist $[\bar{a} \bar{b}]$ oder dreiziffrig $\bar{a} : \bar{b} : 1$. Es berechnet sich:

$$ap_1 + bq_1 = 1 \quad | \quad \bar{a} : \bar{b} : 1 = (q_1 - q_2) : (p_2 - p_1) : (p_1 q_2 - q_1 p_2) = \begin{vmatrix} p_1 q_1 & 1 & p_1 q_1 & 1 \\ p_2 q_2 & 1 & p_2 q_2 & 1 \end{vmatrix}$$

Umgekehrt berechnet sich unser Flächen-Symbol $pq = p : q : 1$ aus:

$$a_1 p + b_1 q = 1 \quad | \quad p : q : 1 = (b_2 - b_1) : (a_1 - a_2) : (a_1 b_2 - b_1 a_2) = \begin{vmatrix} \bar{a}_1 & \bar{b}_1 & 1 & \bar{a}_1 \bar{b}_1 & 1 \\ \bar{a}_2 & \bar{b}_2 & 1 & \bar{a}_2 \bar{b}_2 & 1 \end{vmatrix}$$

¹⁾ Vergl. Index 1, 28. und 24.

Hexagonales System. Ableitung der Transformation

$$hkl \text{ (Miller)} \equiv \frac{h-k}{h+k+l} \frac{k-l}{h+k+l} (G_1) \text{ (Index I S. 45 zuzufügen):}$$

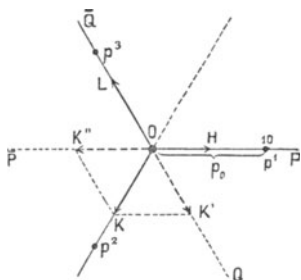


Fig. 20.

Das Symbol hkl bedeutet die Normale der damit bezeichneten Fläche. Es setzt sich als Resultante zusammen aus den drei Componenten $h:k:l$ in den Richtungen der Normalen auf die drei Flächen $p_1 p_2 p_3$ des Grundrhomboeders (Fig. 20 gnom. Proj.) ausgehend vom Krystallmittelpunkt M (Fig. 21 Aufriss).

Ist die Einheit in der Richtung $Mp_1 = P_o$, so sind die drei Componenten $= hP_o, kP_o, lP_o$. Sie lassen sich in ihre horizontalen und verticalen Componenten zerlegen. Für die Poldistanz der Flächen $p_1 p_2 p_3 = \varrho$ sind diese

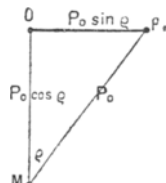


Fig. 21.

Horizontal-Componenten: $\left. \begin{array}{l} oH \text{ in Richtung } op_1 = hP_o \sin \varrho \\ oK \quad \quad \quad op_2 = kP_o \sin \varrho \\ oL \quad \quad \quad op_3 = lP_o \sin \varrho \end{array} \right\} \text{ in der Projektions-Ebene.}$

Vertical-Componenten: $\left. \begin{array}{l} hP_o \cos \varrho \\ kP_o \cos \varrho \\ lP_o \cos \varrho \end{array} \right\} \text{ Diese drei fallen in die gleiche Richtung und bilden eine Vertical-Resultante } = (h+k+l) P_o \cos \varrho$

Nehmen wir nun, wie immer im hexagonalen System, die Vertical-Intensität, hier $(h+k+l) P_o \cos \varrho$, zur Einheit, d. h. messen die Horizontalcomponenten durch diese aus, so haben wir:

$$oH = \frac{hP_o \sin \varrho}{(h+k+l) P_o \cos \varrho}; \quad oK = \frac{kP_o \sin \varrho}{(h+k+l) P_o \cos \varrho}; \quad oL = \frac{lP_o \sin \varrho}{(h+k+l) P_o \cos \varrho}.$$

Nun hat in den Symbolen G_1 das Grundrhomboeder p_1 das Zeichen 10. Daher ist die Länge $op_1 = op_2 = op_3$ unsere Einheit p_o ; d. h. $P_o \cos \varrho = p_o$. Danach ist:

$$oH = \frac{hp_o}{h+k+l}; \quad oK = \frac{kp_o}{h+k+l}; \quad oL = \frac{lp_o}{h+k+l}.$$

Wir wollen aber die Horizontal-Componenten nicht auf die Richtungen op_1, op_2, op_3 beziehen, sondern auf oP, oQ (Fig. 20) und diese pp_o, qp_o nennen. oH hat schon die Richtung oP ; oL hat die Richtung oQ negativ; oK zerlegen wir in oK' in Richtung oQ und oK'' in Richtung $-P$. oK', oK'' sind der Grösse nach $= oK$. Danach haben wir die Antheile:

$$\text{In Richtung } oP: \quad oH + oK'' = \frac{hp_o}{h+k+l} - \frac{kp_o}{h+k+l} = pp_o$$

$$\text{In Richtung } oQ: \quad oK' + oL = \frac{kp_o}{h+k+l} - \frac{lp_o}{h+k+l} = qp_o$$

$$\text{Daher sind unsere Symbolzahlen } pq(G_1): \quad p = \frac{h-k}{h+k+l}; \quad q = \frac{k-l}{h+k+l}.$$

Index I Seite 110 ist zuzufügen:

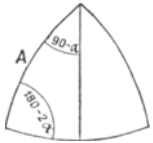


Fig. 22.

Gegeben für ein Rhomboeder der Polkanten-Winkel 2α .

Gesucht der ebene Winkel A der Polkanten. (Fig. 22.)

$$\cos A = \operatorname{ctg}(180 - 2\alpha) \operatorname{ctg}(90 - \alpha) = -\operatorname{ctg} 2\alpha \operatorname{tg} \alpha$$

Für die Grenzfälle $2\alpha = 60^\circ$; 90° ; $109^\circ 28'$

wird $A = 109^\circ 28'$; 90° ; 60°

<i>Gdt.</i>	Winkeltabellen	Seite 25	bei 5 : 13	lies 21 02'3	statt 21 04'9"
"	"	"	29	Fig. 13 im zweiten Quadrant links	lies $+\xi$ statt $+\xi_0$
"	Index Bd. I	"	6	nach Zeile 11 zuzufügen:	<i>Grassmann, I. G.</i> , Pogg. Ann. 1833. 30. I Combinator. Entwickl. d. Kryst. Gestalten.
"	"	"	84	Zeile 9	vo lies $\lg \sin(\sigma - \lambda)$ statt $\lg(\sigma - \lambda)$
"	"	"	"	"	10 " " $\lg \sin(\sigma - \mu)$ " $\lg(\sigma - \mu)$
"	"	"	"	"	11 " " $\lg \sin(\sigma - \nu)$ " $\lg(\sigma - \nu)$
"	"	"	111	"	8 " nach Krystallmittelpunkt zuzufügen M
"	"	"	113	"	10 u. 11 " lies $\frac{\sin \lambda}{\sin \alpha}$ statt $\frac{\sin \varepsilon}{\sin \delta}$
"	"	"	124	"	15 vu " $\frac{\operatorname{tg} \delta \sin \sigma}{\sin \delta}$ " $\operatorname{tg} \frac{d \sin \sigma}{\sin \delta}$
"	"	"	3	IV	23 vo " identificirten statt indentificirten.

Einzelne Mineralien.

Abichit. Für die Winkeltabelle wurde die Aufstellung *Miller* der des Index vorgezogen.

Adamit. Für die Winkeltabelle wurde die Aufstellung *Descloiseaux* der des Index vorgezogen.

Aeschynit. Für die Winkeltabelle wurde die Aufstellung *Rose* der des Index vorgezogen.

Akanthit. *Krenner* (Zeitschr. Kryst. 1884. 14. 390) gibt den Formen des Akanthit reguläre Deutung. Trotz der starken Gründe, die hierfür sprechen, wurde bis zur Abklärung der Frage die rhombische Deutung beibehalten.

Zur Ueberführung der rhombischen Symbole in die regulären dient die *Transformation*:

$$pq \text{ (Rhombisch)} \doteq \frac{1}{2p} + \frac{q}{2p} \text{ (Regulär);}$$

vgl. Zeitschr. Kryst. 1891. 19. 40.

Dana System 1892, Seite 58 Zeile 8 vu lies $\lambda(143)$ statt $x(143)$.

Allaktit. Für die Winkeltabelle wurde die Aufstellung *Sjögren* der des Index vorgezogen.

Gdt. Index Bd. I Seite 171 Zeile 4, 5, 8 vo lies 0.6127 statt 0.6115

" " " I " 171 Nr. 14 " $252 - \frac{5}{2}P\frac{5}{2} + 1\frac{5}{2}$ " $232 - \frac{3}{2}P\frac{3}{2} + 1\frac{3}{2}$

Alstonit. Für die Winkeltabelle wurde die Aufstellung *Miller* der des Index vorgezogen.

Amblygonit. Elemente und Symbole nach *Dana* System 1892. 781.

Amoibit wurde mit **Gersdorffit** vereinigt. Vgl. *Dana* System 1892. 90.

Amphibol-Gruppe.

Gdt. Index Bd. 1 Seite 189 Elemente lies $p_0 = 0.5357$ statt 0.5350
Dana System 1892 " 386 Zeile 3 u. 5 vu " Y(170) " y(170)
 " " " " 387 " 6 vo " YY' " yy'

Aenigmatit-Cossyrit. Krystallsystem nicht sicher. Die Winkel sprechen für das triklone. Die Angaben von *Förstner* wurden durch *E. S. Dana* revidirt (Syst. 1892. 404) und Cossyrit mit Aenigmatit vereinigt. Nach *Dana's* Angaben wurden die Elemente und Symbole in die Winkeltabelle aufgenommen.

Andalusit. Für die Winkeltabelle wurde die Aufstellung *Haidinger* der des Index vorgezogen.

Anglesit.

Dana Syst. 1892 Seite 908 Zeile 3 vu 146 streichen. u(146) steht Z. 15 als gesichert.
 " " " " 909 " 7 vo lies $101^{\circ}33$ statt $88^{\circ}26$
 " " " " " " 8 " " $19^{\circ}02$ " $19^{\circ}31$
Lang Wien. Sitzb. 1859. 36. Seite 268 Zeile 13 vu lies $58^{\circ}18'1$ statt $59^{\circ}17'1$
 " " " " " " " " 9 " " $67^{\circ}27'4$ " $77^{\circ}27'4$

Anhydrit. *Dana* Syst. 1892 Seite 911 Zeile 2 vu lies $143^{\circ}9\frac{1}{2}$ statt $142^{\circ}9\frac{1}{2}$

Annerödit. Für die Winkeltabelle wurde die Aufstellung *Brögger* der des Index vorgezogen. *Dana's* Aufstellung (Syst. 1892. 741) giebt minder einfache Symbole.
Dana Syst. 1892 Seite 741 Zeile 7 vo lies $61^{\circ}16$ statt $62^{\circ}36$

Antimonblende. *Piatnitzky* gibt (Zeitschr. Kryst. 1892. 20. 417) das Axen-Verhältniss $a:b:c = 4.6448:1.1717:1$. Die Symbole vereinfachen sich durch die für die Winkeltabelle angenommene *Transformation*:

$$pq \text{ (Piat.)} = \frac{p}{3} q \text{ (Gdt.)}$$

Folgende Formen sind angegeben:

$?a$	$?b$	$?c$	δ	u	$?e$	s	$?x$	λ	ω	
$\frac{2}{3}0$	$\frac{1}{2}0$	$\frac{2}{3}0$	$\frac{3}{4}0$	10	$\frac{2}{3}0$	$\frac{3}{2}0$	$\frac{7}{4}0$	20	$\frac{2}{4}0$	Piat.
$\frac{2}{15}0$	$\frac{1}{6}0$	$\frac{2}{9}0$	$\frac{1}{4}0$	$\frac{1}{3}0$	$\frac{3}{8}0$	$\frac{1}{2}0$	$\frac{7}{12}0$	$\frac{2}{3}0$	$\frac{3}{4}0$	Gdt.
$?mu$	ρ	o	σ	$?tau$	Σ	Θ	Δ	p		
$\frac{5}{2}0$	50	60	70	80	31	3	63	$\infty 0$.	Piat.
$\frac{5}{6}0$	$\frac{5}{3}0$	20	$\frac{7}{3}0$	$\frac{8}{3}0$	1	13	23	$\infty 0$.	Gdt.

Als unsicher wurden von diesen angesehen und in die Winkeltabellen nicht aufgenommen: $\alpha \beta \gamma \varepsilon \kappa \mu \tau$.

Vielleicht sind noch einige andere unsicher. Sie sind folgendermassen charakterisirt: Δ bedeute Differenz zwischen Messung und Rechnung.

α Seite 423 $\Delta = 9'$; $1^{\circ}29'$ zeigt Längsstreifen und Querrisse.

" 425 schmal giebt kein Signal.

β " " schlecht; Sign. fehlt. S. 427 schlecht; Sign. kaum merkbar. $\Delta = 10'$; 1° .

γ " " schmal; längsgestreift. S. 426 faserig; Sign. undeutlich Kr. geknickt.

ε " 424 gerieft; $\Delta = 7'$; $50'$

κ " 425 Sign. gut. Statt $\frac{7}{20}0$ wäre wohl $\frac{3}{2}0$ zu setzen. $\frac{7}{20}0 : \infty 0 = 69^{\circ}21$; $\frac{3}{2}0 : \infty 0 = 68^{\circ}49$; beob. $\kappa p = 69^{\circ}4'$. $\Delta = 17'$ resp. $15'$.

μ Seite 424. 425. 427. 428. Sign. stets undeutlich. Messungen stimmen besser mit $\frac{4}{3}$.
 Beob. $\mu\rho = 62^\circ 25'; 62^\circ 43'; 62^\circ 41'; 61^\circ 01'$. Ber. $\frac{4}{3} 0 : \infty 62^\circ 40'; \frac{5}{6} 0 : \infty = 61^\circ 43'$
 τ " 425 matt. Sign. fehlt.
Gdt. Index Bd. 1 Seite 220 nach Z. 2 zuzufügen: *Kenngott* Min. Unters. Breslau 1849. 111

Antimonglanz. Für die Winkeltabelle wurde die Aufstellung *Mohs* der des Index vorgezogen.

Antimonsilber. Für die Winkeltabelle wurde die Aufstellung *Lévy* der des Index vorgezogen.

Apatit. *Baumhauer* (Zeitschr. Kryst. 1891. 18. 40) stellt die Elementarwinkel zusammen. Sie entsprechen folgenden Elementen p_0 resp. c_{10} (G_1)

Achmatowsk, Laacher See	$p_0 = 0.8422$	$c_{10} = 0.7294$
Rothenkopf, Ala	0.8444	0.7313
Kirjabsinsk	0.8458	0.7325
Jumilla	0.8459	0.7326
Knappenwand	0.8468	0.7333
Blakodat, Nordmarken	0.8472	0.7337
Gotthart, Tawetsch, Schwarzenstein, Floitenthal	0.8476	0.7340
Hiddenit-Grube	0.8479	0.7343
Turkistan	0.8481	0.7345
Smaragdgruben, Ehrenfriedersdorf, Pisek . .	0.8486	0.7349
Schlaggenwald	0.8491	0.7353

Die im Index aufgenommene Zahl 0.8453 steht der unteren Grenze nahe, die von *Dana* gewählte (Syst. 1892. 763) $c = 0.7346$ (*Kokschi*) der oberen Grenze. Für die Winkeltabelle wurde ein mittlerer Werth $p_0 = 0.8472$ genommen.
Dana Syst. 1892 Seite 763 Zeile 17 vo lies $10^\circ 54'$ statt $13^\circ 54'$

Apophyllit $t = \frac{0}{10}$; $u = \frac{24}{25}$; $w = \frac{51}{50}$ wurden als vicinal weggelassen.
 Zeitschr. Kryst. Bd. 17 Seite 53 (Fussnote) lies: durch F ersetzt, statt durch H ersetzt.

Aragonit. Für die Winkeltabelle wurde die Aufstellung *Mohs* der des Index vorgezogen.
Gdt. Index Bd. 1 Seite 240 Zeile 12 vo lies *Schmid* statt *Schmidt*.

Ardennit. Für die Winkeltabelle wurde die Aufstellung *Rath* der des Index vorgezogen.

Arksutit ist vielleicht = **Chiolith**. Bis zum sichern Nachweis wurde er für sich geführt.

Arquerit wurde mit **Amalgam** vereinigt (vgl. *Dana* Syst. 1892. 23).

Arsen. Statt des Elementes $p_0 0.9350$ (Index n. *Rose*) wurde $p_0 = 0.9342$ (*Zepharowich*) als genauer angenommen.

Gdt. Index Bd. 1 Seite 251 zuzufügen: $a : c = 1 : 1.4013$ (*Zepharowich*).
 " " " " " 252 " *Zepharowich* Wien. Sitzb. 1875 (I) 71. 272
 " " " " " " " *Zenger* " 1861 . 44 309

Arsenkies. Für die Winkeltabelle wurde das Mittel aus den Grenzwerten der Elemente des Index eingesetzt.

$\alpha = 0. \frac{1}{24} (0.1.24)$ *Schmidt* (Zeitschr. Kryst. 1888. 14. 574) ist unsicher. Besser mit der Messung stimmt $0. \frac{1}{21}$ ($0.1.21$)
 $0. \frac{1}{24} : 0. \frac{1}{24} = 5^\circ 35'$ } $0. \frac{1}{21} : 0. \frac{1}{21} = 6^\circ 20'$ } nach *Schmidt's* $\alpha\alpha = 6^\circ 22'$ } beob.
 $0. \frac{1}{24} : 0. \frac{1}{6} = 8^\circ 15'$ } $0. \frac{1}{21} : 0. \frac{1}{6} = 7^\circ 51'$ } Elem. $\alpha\beta = 8^\circ 07'$ }

Astrophyllit. Die von *Brögger* 1878 vorgeschlagene im Index des Verfassers gegebene triklone Deutung wurde 1890 (ZK. 16. 200) von *Brögger* durch eine rhombische ersetzt; später ab vertauscht. Letztere Aufstellung, von *E. S. Dana* (Syst. 1892. 719) angenommen, wurde der Winkeltabelle zu Grunde gelegt. Krystallsystem, Elemente und Symbole sind noch immer unsicher. Die besonders unsicheren Formen $\beta = 0\frac{1}{50}$ ($0\cdot1\cdot50$); $\lambda = 1\frac{5}{7}$ (767); $n = 1\frac{5}{6}$ (565) wurden weggelassen.

Atakamit. Für die Winkeltabelle wurde die Aufstellung *Hausmann* der des Index vorgezogen.
Gdt. Index Bd. 1 Seite 261 Zeile 10 vo lies $0\cdot7515$ statt $0\cdot7545$

Atelestif. *Gdt.* Index Bd. 3 Seite 404 Zeile 21 vo lies $1\frac{1}{3}$ statt 31
 " " " " " " " 20 " " 313 " 311

Auripigment. Für die Winkeltabelle wurde die Aufstellung *Mohs* der des Index vorgezogen.

Axinit. Für die Winkeltabelle wurde die Aufstellung *Miller* der des Index vorgezogen.
 Bei *Miller* ist der erste Quadrant oben links. Danach ist zu transformiren

$$pq(\text{Index}) = \frac{p}{q} \frac{1}{q} (\text{Winkeltabelle})$$

Gdt. Index Bd. 1 Seite 271 Zeile 16 vo lies $x'_0 = -0\cdot2164$ statt $x'_0 = 0\cdot2164$
 " " " " " " " 17 " " $y'_0 = -0\cdot0317$ " $y'_0 = 0\cdot0317$

Baddeleyit. (*Fletcher*) Min. Mag. 1893. 10. 148. Z. K. 1895. 25. 297 = **Brazilit** (*Hussak.*) Jahrb. Min. 1892. 2. 141. Der Name Brazilit wurde von *Hussak* zu Gunsten des Namens Baddeleyit zurückgezogen. *Hussak's* Material war besser ausgebildet als das *Fletcher's*, dessen Messungen der Hauptwinkel bis 3° schwanken. *Hussak's* Elemente wurden deshalb der Tabelle zu Grunde gelegt.

$pq(\text{Fletcher}) \div \frac{p}{2} \frac{q}{2} (\text{Hussak})$. Welche Aufstellung vorzuziehen sei, lässt sich nicht bestimmen sagen.

Baryt. *Helmhacker.* Wien. Denkschr. 1872. 32. S. 49 Zeile 15 vo lies 121 21 statt 161 21
 " " " " " " " 50 " " 151 45 " 151 35
 " " " " " " " 11 " " 100 19 " 100 24 51
 " " " " " " " 23 " " 110 00 " 110 10 57
 " " " " " " " 16 vu " 103 43 " 102 24 31
 " " " " " " " 5 " " 106 46 " 104 47 44
 " " " " " " " 2 " " 102 39 " 102 22 20
 " " " " " " " 51 " I vo " 105 59 " 104 06 20

Barytocalcit. Index 1. 287 sind Axenverhältniss und Elemente unrichtig. Es ist zu setzen:
 $a : b : c = 1\cdot2507 : 1 : 0\cdot8476 \quad \beta = 119^\circ 00$ (*Gdt.*)

Gdt. Index Bd. 1 Seite 287 Zeile 4 vo lies $1\cdot2507 : 1 : 0\cdot7413$ statt $1\cdot0939 : 1 : 0\cdot7413$
 " " " " " " " 9 " " $1\cdot2507 ; 0\cdot09717$ statt $1\cdot0939 ; 0\cdot03898$
 " " " " " " " 10 " " $0\cdot8476 ; 992819 ; 0\cdot07181 ; 987001 ; 1\cdot1798 ;$
 $0\cdot7413 ;$ statt $0\cdot7413 ; 986999 ; 013001 ;$
 $981181 ; 1\cdot3490 ; 0\cdot6483$
 " " " " " " " 11 " " 996100 statt 001920 .

<i>Gdt.</i> Index Bd. 1 Seite 287 Col. <i>Gdt.</i>	lies	$-(p+1)q; (p-1)q;$	$\frac{-2}{p+1} \frac{q}{p+1};$
		$\frac{-2}{2p+1} \frac{2q}{2p+1}$	statt $(p+1)q; (1-p)q;$
		$\frac{2}{p+1} \frac{q}{p+1}; \frac{2}{2p+1} \frac{2q}{2p+1}$	
" " " " " " Zeile 18 vo "		$-(p+1)q; (p+1)q;$	$-\frac{2+p}{p} \frac{2q}{p};$
		$-\frac{2+p}{2p} \frac{q}{p}$	statt $(p-1)q; (1-p)q;$
		$\frac{2-p}{p} \frac{2q}{p}, \frac{2-p}{2p} \frac{q}{p}$	
" " " " " " " 2 vu "		$101+P\infty -10$	statt $101-P\infty +10$
" " " " " " " 1 "		$201+2P\infty -20$	" $201-2P\infty +20.$

Belonesit. *Scacchi A.* u. *E.* Zeitschr. Kryst. 1888. 14. 523
Dana E. S. Syst. 1892. — 992

Bertrandit. Für die Winkeltabelle wurde die Aufstellung *Bertrand* der des Index vorgezogen.

Beryll. *Gdt.* Index Bd. 1 Seite 298 Zeile 11 vo zuzufügen: 1858. 3. 72
Dana System 1892 " 405 " 18 " lies $m(1010, 1)$ statt $m(1011, 1)$
 " " " " " " 20 " zuzufügen: $D(22\bar{4}3, \frac{4}{3} - 2)$
 " " " " " " " " " $\chi(9'716'9, \frac{16}{9} - \frac{16}{7})$

Beryllonit. *Gdt.* Index Bd. 1 Seite 366 Zeile 17 vu lies $\frac{2}{q} \frac{2p}{q}$ statt $\frac{1}{2q} \frac{p}{2q}$
Dana System 1892 " 759 " 10 vo " $43^{\circ}43$ " $43^{\circ}45$
 Zeitschr. Kryst. Bd. 15 " 279 " 16 " " $75^{\circ}56$ " $75^{\circ}46$
 " " " " " " 27 " " $48^{\circ}50$ " $43^{\circ}50$

Beudantit. Die Form $+10 \cdot 10(G_2) = +10R$ nur *Dana* System 1873. 889 ohne nähere Angabe. *E. S. Dana* (System 1892. 868) hat sie weggelassen. Sie erscheint unsicher und ist bis zur Bestätigung zu löschen.

Gdt. Index Bd. 1 Seite 301 No. 2 die ganze Zeile zu löschen
 " " " " " 302 zuzufügen: *Lévy* Ann. Phil. 1826. 11. 195
 " " " " " " Zeile 3 vo lies 611 statt 589
 " " " " " " 4 " " 589 " 611

Beyrichit. *Laspeyres* Zeitschr. Kryst. 1892. 20. 535

Bieberit steht durch Versehen ausser Index 1. 303 noch einmal als Kobaltvitriol 3. 376 und ist dort zu streichen.

Bismit. *Nordenskjöld* Pogg. Ann. 1861. 114. 622 (Wismutoxyd). *Dana* System 1892. 200.
Nordenskjöld's Symbole vereinfachen sich durch die *Transformation*:

$$pq(Nsk.) \doteq \frac{2}{3} p \cdot \frac{2}{3} q (Gdt.); \quad pq(Gdt.) \doteq \frac{3}{2} p \cdot \frac{3}{2} q (Nsk.)$$

Diese *Transformation* wurde für die Winkeltabellen angenommen. Aehnlichkeit mit Tungstit, Valentinit, vgl. Tungstit.

Blödit. Für die Winkeltabelle wurde die Aufstellung *Rath* der des Index vorgezogen.

Bombicoit. Wurde weggelassen. Es ist eine CHO-Verbindung, deren Zusammensetzung unsicher ist und die schwerlich wieder zu mineralogischer Beobachtung kommen wird.

Borax. *Gdt.* Index Bd. 1 Seite 329 Zeile 14 vo lies: $\lg \cos \mu = 945547$, statt $\lg \sin \mu = 945547$.

Bournonit. Für die Winkeltabelle wurde die Aufstellung *Miller* der des Index vorgezogen.
Gdt. Index Bd. 1 Seite 329 No. 4 lies κ statt k (vgl. *Schmidt Z. K.* 1892. 20. 153)
Dana System 1892 " 127 Buchst. π θ kommen zweimal vor. Es ist zu lesen *IIO*.
 r (134) ist unsicher, q (131) ganz unsicher (vgl. Index 1. 333).

Brandtit wurde mit Roselith vereinigt. Beob. Formen $CAef\eta\varphi\zeta\sigma\lambda S$ (Buchst. Roselith) (*Dana E. S.* System 1892. 811). λ ist nur bei Brandtit beobachtet. Das unsichere $X = \frac{3}{4} \frac{3}{8}$ wurde weggelassen.

Braunit. Element nach *Flink* (*Zeitschr. Kryst.* 1892. 20. 368). Sein Material scheint das beste gewesen zu sein. Die Aufstellung *Miller* wurde der des Index vorgezogen.

Brazilit (*Hussak*) = **Baddeleyit** (*Fletcher*).

Breithauptit. Statt des im Index gegebenen Elements wurde das genauere nach Messungen von *Busz* angenommen (*Jahrb. Min.* 1895. 1. 119). Vielleicht wäre wegen Analogie mit Magnetkies, Wurtzit, Greenockit, Rothnickelkies p_0 zu verdoppeln, doch werden die Symbole minder einfach. Spätere Beobachtungen können entscheiden. *Busz* giebt $s = 70$ entspr. 14° unserer Aufst. Beob. nur 1 Fl. Das Symbol ist auffallend. Beachtenswerth ist, dass *E. S. Dana* beim Magnetkies eine entsprechende Form fand. (*Amer. J.* 1876 (3) 11. 386; *Syst.* 1892. 73).

Breithauptit $sc = 81^\circ 39$ (*Busz*) Magnetkies $yc = 81^\circ 30$ (*Dana*).

Brewsterit. Nach der Correctur des Druckfehlers bei *Descloizeaux* $ph^1 = 93^\circ 40$ statt $93^\circ 04$ durch *E. S. Dana* (*Syst.* 1892. 577) ändern sich die Elemente (Index 3. 407) ein wenig.
Gdt. Index Bd. 1 Seite 407 Elemente lies:

$a = 0.4049$	$\lg a = 960735$	$\lg a_0 = 968266$	$\lg p_0 = 031734$	$a_0 = 0.4816$	$p_0 = 2.0765$
$c = 0.8408$	$\lg c = 992469$	$\lg b_0 = 007531$	$\lg q_0 = 992380$	$b_0 = 1.1893$	$q_0 = 0.8391$
$\mu = \beta \left. \begin{array}{l} 86^\circ 20 \\ 180 \end{array} \right\}$	$\lg h = \left. \begin{array}{l} 999911 \\ \lg \sin \mu \end{array} \right\}$	$\lg e = \left. \begin{array}{l} 880585 \\ \lg \cos \mu \end{array} \right\}$	$\lg \frac{p_0}{q_0} = 039354$	$h = 0.9979$	$e = 0.0639$

Brochantit (Warringtonit). Durch Versehen wurde dies Mineral ausgelassen. Es ist Seite 79 zuzufügen. Wegen ungünstigen Materials sind Elemente und Krystallsystem nicht gesichert, trotz der eingehenden Untersuchungen von *Schrauf* (*Wien, Sitzb.* 1873. 67 (1) 275). Mit Rücksicht auf die bestehende Unsicherheit wurden nur die best bestimmten Formen aufgenommen. Der Winkelberechnung wurde das Mittel aus den rhombischen Elementen von *Miller*, *Kokscharow* und *Schrauf* untergelegt. Die Aufstellung *Schrauf* wurde der des Index vorgezogen.

Brochantit.

(Warringtonit.)

Rhombisch. (?)

a = 0.7777	lg a = 989081	lg a ₀ = 020008	lg p ₀ = 979992	a ₀ = 1.5852	p ₀ = 0.6308
c = 0.4906	lg c = 969073	lg b ₀ = 030927	lg q ₀ = 969073	b ₀ = 2.0383	q ₀ = 0.4906

No.	Buchstaben	Symb.	Miller	φ	ϱ	ξ_0	η_0	ξ	η	$\frac{x}{y}$ (Prismen) (x : y)	y	d = tge
1	c	0	001	—	0°00	0°00	0°00	0°00	0°00	0	0	0
2	b	0∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	a	∞0	100	90 00	"	90 00	0 00	90 00	0 00	∞	0	"
4	h	∞	110	52 07'	"	"	90 00	52 07'	37 52'	1.2859	∞	"
5	n	$\infty\frac{4}{3}$	340	43 57'	"	"	"	43 57'	46 02'	0.9644	"	"
6	d	∞2	120	32 44'	"	"	"	32 44'	57 15'	0.6430	"	"
7	e	0 $\frac{1}{2}$	012	0 00	13 47	0 00	13 47	0 00	13 47	0	0.2453	0.2453
8	i	01	011	"	26 08	"	26 08	"	26 08	"	0.4906	0.4906
9	v	10	101	90 00	32 14'	32 14'	0 00	32 14'	0 00	0.6308	0	0.6308
10	x	20	201	"	51 36	51 36	"	51 36	"	1.2617	"	1.2617
11	p	1 $\frac{1}{2}$	212	68 45	34 05'	32 14'	13 47	31 29'	11 43	0.6308	0.2453	0.6768

Brookit. Für die Winkeltabelle wurde die Aufstellung *Miller* der des Index vorgezogen.

Gdt. Index Bd. 1 Seite 357 Zeile 12 vo lies 0.8416 statt 0.8443
 Zeitschr. Kryst. " 24 " 429 " 20 " " 67°54 " 68°54

Brushit. Für die Winkeltabelle wurde *E. S. Dana's* Aufstellung (System 1892. 828) der des Index vorgezogen.

Calcit. Beim Calcit sind so viele Formen bekannt, dass die Grundzüge der Entwicklung klar liegen. Die Neu beobachtungen bringen meist Formen der feineren Differenzirung von hochzahligem Symbol. Für solche ist besondere Vorsicht in Ermittelung der Position nöthig; es ist eine Discussion der Zahlenreihen und des Projectionsbildes und oft auf Grund der hieraus gezogenen Schlüsse eine Nachrechnung oder Nachmessung erforderlich. Bei der Häufigkeit des Materials, bei der Neigung zu Rundungen und anderen Unregelmässigkeiten liegt die Gefahr vor, dass eine Menge unsicherer Formen gerade für den Calcit angegeben werden. (Vgl. Index 1. 148.) Auch unter den in den Index aufgenommenen Formen finden sich unsichere, deren Auffindung und Entfernung nöthig ist. Unsicher und zu entfernen sind u. A.: No. 105. 110. 111.

Neue Formen finden sich in folgenden Publikationen, doch wagte ich nicht, sie ohne eingehendes Studium unter die Gesicherten aufzunehmen.

1. *Sansoni* Zeitschr. Kryst. 1886. 11. 352
2. " " 1891. 18. 82 Att. Ac. Torino 1888. 23
3. " " " 19. 321
4. " " 1892. 20. 597 Giorn. Min. 1890. 1. 129
5. *Thürling* Jahrb. Min. 1886 Bl. Bd. 4. 327 Inaug. Diss.

6. *Morton* Zeitschr. Kryst. 1886. 11. 319 Stockh. Vet. Ak. Förh. 1884. 8. 65
7. *Cesaro* " 1888. 13. 431 Mem. Ac. Belg. 1886. 38. 1
8. *Traube* " 1891. 18. 321 Jahrb. Min. 1888. 2. 252
9. *Feremejew* " 1890. 17. 625 Petersb. Min. Ges. 1889. 25. 353
10. *Kemp* " 1892. 20. 416 Amer. Journ. 1890. 40. 62
11. *Panbianco* " " " " 178 Rivista 1889. 6. 21 (Kritik)
12. *Gonnard* " " " " Bull. soc. franc. 1897. 20. 18.

Folgende Uebersicht möge einer Discussion vorarbeiten. Die Nummern beziehen sich auf obiges Literaturcitat. Δ bedeute Differenz zwischen Messung und Rechnung.

Buchst.	G ₁	G ₂	Naumann	Citat	Bemerkungen
⊂	$-\frac{1}{3} \frac{4}{3}$	- 62	$-2 R \frac{7}{3}$	1	Etwas gerundet, daher nicht sicher
	$-\frac{40}{23} \frac{12}{23}$	$-\frac{64}{23} \frac{28}{23}$	$-\frac{28}{23} R \frac{13}{7}$	1	Wohl identisch $-\frac{1}{4} \frac{5}{4} (G_2)$, dem es nahe steht
	+ 90	+ 9	+ 9 R	1·8	- 9 im Text, + 9 in Fig. Schmal
♂	$-\frac{28}{17} \frac{12}{17}$	$-\frac{52}{17} \frac{16}{17}$	$-\frac{16}{17} R \frac{5}{2}$	1	Wohl vicinal zu - 31 (G ₂)
XX	$+\frac{5}{2} \frac{5}{4}$	$+\frac{5}{4}$	$+\frac{5}{4} R 3$	1	$\Delta = 1^\circ$
×	$+\frac{15}{4} \frac{5}{4}$	$+\frac{25}{4} \frac{5}{2}$	$+\frac{5}{2} R^2$	1	$\Delta = 1^\circ 30'; 50'$; Differenz der einzelnen Messungen 2°
♂	$+\frac{5}{4}$	$+\frac{15}{4} \frac{15}{4}$	$+\frac{15}{4} R \frac{5}{3}$	1	$\Delta = 59'; 11'$; Differenz d. einz. Messungen $1^\circ 6'; 1^\circ 40'$
♀	$-\frac{11}{7} \frac{6}{7}$	$-\frac{23}{7} \frac{5}{7}$	$-\frac{5}{7} R \frac{17}{5}$	1	Messung annähernd.
	$+\frac{10}{8} \frac{11}{8}$	$+\frac{41}{8} 1$	$+R \frac{15}{4}$	2	Wohl vicinal zu + 51 = $R \frac{11}{3}$
	$+\frac{9}{2} \frac{7}{2}$	$+\frac{23}{2} 1$	$+R^8$	3·11	S. 322 von <i>Panbianco</i> zurückgewiesen
	+ 22·0	+ 22·22	+ 22 R	3	S. 323 von <i>Cesaro</i> bestätigt
	$+\frac{17}{2} \frac{15}{2}$	$+\frac{47}{2} 1$	$+R^{16}$	3	S. 325 breit, gewölbt
	+ 20·0	+ 20·20	+ 20 R	3	S. 326 zu vermuthen + 19·19
	+ 18·0	+ 18·18	+ 18 R	3	S. 334
	$+\frac{41}{20} \frac{21}{20}$	$+\frac{83}{20} 1$	$+R \frac{31}{10}$	3	S. 334 Wohl Vicinale zu + 41
	$+\frac{25}{12} \frac{13}{12}$	$+\frac{17}{4} 1$	$+R \frac{10}{6}$	3	"
	$-\frac{20}{13} \frac{6}{13}$	$-\frac{32}{13} \frac{14}{13}$	$-\frac{14}{13} R \frac{13}{7}$	4	S. 597 Wohl Vicinale zu $-\frac{5}{2} 1$
	$+\frac{21}{2} \frac{12}{2}$	$+\frac{52}{2} 1$	$+R 20$	4	S. 597 Wohl Vicinale zu $\infty 0$
	$-\frac{20}{17} \frac{4}{17}$	$-\frac{28}{17} \frac{16}{17}$	$-\frac{16}{17} R \frac{3}{2}$	4	S. 598 Wohl Vicinale zu $-\frac{5}{3} 1$
	$-\frac{17}{11} \frac{7}{11}$	$-\frac{31}{11} \frac{10}{11}$	$-\frac{10}{11} R \frac{12}{5}$	4	S. 598
	+ 11·0	+ 11·11	+ 11 R	5	S. 356 Zu erwarten + 10·10 $\left. \begin{array}{l} 11 \cdot 11 : \infty \text{ ber. } 5^\circ 16' \\ 10 \cdot 10 : \infty \text{ " } 5^\circ 47' \end{array} \right\} \text{ gem. } 5^\circ 20'$
	$-\frac{1}{6} 0$	$-\frac{1}{6}$	$-\frac{1}{6} R$	5	S. 360
	- 28·0	- 28·28	- 28 R	5	S. 343 Fläche nicht ganz eben
	$+\frac{3}{7} \frac{2}{7}$	$+\frac{1}{7}$	$+\frac{1}{7} R^5$	5·6	S. 351 Auch von <i>Morton</i> beob., erscheint gesichert
	$+\frac{13}{10} \frac{3}{10}$	$+\frac{10}{10} 1$	$+R \frac{8}{5}$	5	S. 348 An Durchwachsungsgrenze, dah. viell. beeinfl.
	$+\frac{22}{37} \frac{8}{37}$	$+\frac{38}{37} \frac{14}{37}$	$+\frac{14}{37} R \frac{15}{7}$	5	S. 371 Wohl vicinal zu $+1 \frac{2}{3}$, beeinfl. d. Durchwachsung
	$-\frac{11}{7} \frac{3}{7}$	$-\frac{8}{7} \frac{5}{7}$	$-\frac{8}{7} R \frac{3}{4}$	5	S. 360 Etwas convex
	$+\frac{6}{5} \frac{4}{5}$	$+\frac{14}{5} \frac{2}{5}$	$+\frac{2}{5} R 5$	6	
	$-\frac{6}{5} \frac{1}{5}$	$-\frac{8}{5} 1$	$-R \frac{7}{5}$	6	

Buchst.	G ₁	G ₂	Naumann	Citat	Bemerkungen
	$-\frac{24}{7} \frac{3}{7}$	$-\frac{30}{3}$	$-3 R \frac{9}{7}$	6	
	$+\frac{7}{100} \frac{1}{30}$	$+\frac{11}{100} \frac{1}{20}$	$+\frac{1}{20} R \frac{9}{3}$	6	Wohl vicinal zur Basis
	$+\frac{49}{500} \frac{14}{500}$	$+\frac{67}{500} \frac{7}{100}$	$+\frac{7}{100} R \frac{9}{3}$	6	Wohl vicinal zur Basis
	$+\frac{20}{21} \frac{2}{21}$	$+\frac{8}{7} \frac{6}{7}$	$+\frac{8}{7} R \frac{11}{9}$	7	
	$+\frac{11}{8} \frac{3}{8}$	$+\frac{17}{8} 1$	$+R \frac{7}{4}$	7	
	$-\frac{17}{6} \frac{5}{6}$	$-\frac{9}{2} 2$	$-2 R \frac{11}{6}$	7	Vom Beobachter nur als wahrscheinlich bezeichnet
	$+\frac{15}{4} \frac{5}{4}$	$+\frac{25}{2} \frac{5}{2}$	$+\frac{5}{2} R 2$	9	
	$+\frac{3}{5} \frac{6}{35}$	$+\frac{33}{35} \frac{3}{7}$	$+\frac{3}{7} R \frac{9}{5}$	10	Daneben steht, wohl für dieselbe Form $\frac{2}{7} R \frac{9}{5}$. Material ungünstig
	$+\frac{104}{77} \frac{13}{77}$	$+\frac{130}{77} \frac{13}{11}$	$+\frac{13}{11} R \frac{9}{7}$	10	Material ungünstig. Wie die vorhergehende unsicher
b ₄ ⁷	$-\frac{4}{11} \frac{3}{11}$	$-\frac{10}{11} \frac{1}{11}$	$-\frac{1}{11} R 7$	12	Glieder einer gestreiften Zone in einander übergehend nicht gesichert. b ₂ ⁹ ist nicht neu
b ₆ ¹³	$+\frac{7}{19} \frac{6}{19}$	$+\frac{1}{19}$	$+\frac{1}{19} R 13$	12	
b ₆ ¹⁷	$+\frac{17}{23} \frac{6}{23}$	$+\frac{5}{23}$	$+\frac{5}{23} R \frac{17}{5}$	12	
b ₃ ¹⁰	$+\frac{7}{13} \frac{3}{13}$	$+\frac{1}{13}$	$+\frac{1}{13} R \frac{5}{2}$	12	
b ₂ ⁹	$+\frac{7}{11} \frac{2}{11}$	$+\frac{5}{11}$	$+\frac{5}{11} R \frac{9}{5}$	12	
e ₃ ⁴	$-\frac{7}{3} \frac{1}{3}$	-32	$-2 R \frac{4}{3}$	12	
K ₁	$-2 \frac{3}{2}$	$-5 \frac{1}{2}$	$-\frac{1}{2} R 7$	12	Nicht neu
K	$-\frac{7}{3} \frac{4}{3}$	-51	$-R \frac{11}{3}$	12	An vielen Kr. gut ausgeb. Sicher
J	$-\frac{23}{10} \frac{9}{10}$	$-\frac{41}{10} \frac{7}{5}$	$-\frac{7}{5} R \frac{16}{7}$	12	
U	$-\frac{36}{13} \frac{19}{13}$	$-\frac{74}{13} \frac{17}{13}$	$-\frac{17}{13} R \frac{55}{17}$	12	
V	$-\frac{59}{17} \frac{16}{17}$	$-\frac{91}{17} \frac{43}{17}$	$-\frac{43}{17} R \frac{75}{43}$	12	

Folgende neue Formen von Lake Superior Calciten verdanke ich der brieflichen Mittheilung von C. Palache (Cambridge Mass.) vom 11. Juni und 20. October 1896. Eine eingehende Discussion dieser Formen im Projectionsbild wie in den Zahlenreihen, eine daran geknüpfte Correspondenz, sowie Nachmessungen Palache's, wo nöthig, führten zu einer Abklärung, sodass die Formen als gesichert gelten können. Eine ausführliche Publication Palache's folgt nach.

Buchstabe	G ₂	Naumann	Bemerkungen von Palache
ψ	$\frac{4}{3} \infty$	$\infty P \frac{11}{10}$	An vielen Kr. m. all. Einzelfl. beob. An 3 gem. Fl. manchmal leicht gekrümmt, aber gewöhl. m. scharfem Refl.
ω	$\frac{16}{3} 0$	$\frac{32}{9} P 2$	An 1 Kr. beob. 2 Fl. gem. vollk. Refl. Mess. u. Rechn. stimm. nahe
u:	$-\frac{11}{13} \frac{2}{13}$	$-\frac{2}{13} R 4$	An 1 Kr. mit 4 Fl. beob. Schmal. Refl. schwach. Gut best. durch Zonenverband
Γ:	$+\frac{19}{4}$	$+4 R \frac{9}{8}$	Diese Zone sehr reich an Formen. Alle neuen Formen ausser Σ: Φ: an mehr als 1 Kr. Fl. schmal, öfters durch gestreifte Bänder verbunden. Refl. deutl. Messungen in vielen Zonen stimmen gut unter sich. Jede der neuen F. mindestens an 1 Kryst. für sich allein gef. Σ: Φ: nur an 1 Kr. zus. aber sehr gut ausgeb.
Δ:	+54	$+4 R \frac{7}{6}$	
Σ:	$+\frac{26}{3} 4$	$+4 R \frac{6}{3}$	
Θ:	$+\frac{16}{3} 4$	$+4 R \frac{11}{9}$	
Φ:	$+\frac{11}{2} 4$	$+4 R \frac{5}{4}$	
Α:	$+\frac{49}{7} 4$	$+4 R \frac{9}{7}$	
U	+62	$+2 R \frac{7}{3}$	An sehr vielen Kr. mit voller Flächenzahl; ausgez. Refl.

Buchstabe	G ₂	Naumann	Bemerkungen von Palache
Z	$+\frac{8}{5}\frac{4}{3}$	$+\frac{4}{3}R\frac{5}{3}$	An mehr. Kr. beob. An 10 mit allen Fl. An 2 gem. Refl. gut, obwohl Fläche manchmal theilweise geätzt
M	$+\frac{16}{5}\frac{4}{3}$	$+\frac{4}{3}R\ 3$	An 1 Kr. mit 2 Fl. beob. Refl. ausgez. Messungen und Rechnungen stimmen gut
N	$+\frac{20}{11}\frac{8}{11}$	$+\frac{8}{11}R\ 2$	An 3 Kr. mit allen Fl. an 1 Ende. Gute Refl.

Nach Druck der Tabellen theilt mir *Palache* (Juli 1897) folgende durch Messung und Discussion gesicherte Calcitformen von Lake Superior mit:

Buchstaben	G ₂	Naumann	Bemerkungen von Palache
II:	+43	+3R $\frac{1}{9}$	An mehr. Kr. An 1 Kr. scharfe Fl., gut Refl. An andern in Streifung nach Zone +4 q
w:	$+\frac{5}{2}\frac{1}{2}$	$+\frac{1}{2}R\frac{1}{3}$	3 Fl. einer Zone an vielen Kr. Manchmal verbunden durch Zwischenformen. Aber jede auch allein gef. Fl. schmal, aber mit gut. Refl.
a	$+\frac{25}{7}\frac{6}{7}$	$+\frac{6}{7}R\frac{28}{9}$	
b	$+\frac{14}{5}\frac{3}{5}$	$+\frac{3}{5}R\frac{31}{9}$	
P	+92	+2R $\frac{10}{3}$	An 1 Kr. m. 2 Fl. Winkel und Zonenverband gut
D	$-\frac{7}{2}\frac{5}{4}$	$-\frac{5}{4}R\frac{1}{5}$	An 2 Kr. m. allen Fl., gut Refl.
E	$-\frac{7}{4}\frac{7}{22}$	$-\frac{7}{22}R^4$	An 1 Kr. Refl. schwach, aber Position gut. Zonenverband gut
F	$-\frac{7}{2}1$	$-R\frac{8}{3}$	" " " " " " " " " " " "
A	$-\frac{31}{8}\frac{5}{4}$	$-\frac{5}{4}R\frac{12}{5}$	An 1 Kr. mehr. Fl. Refl. gut. Zonenverband gut
B	$-\frac{64}{11}\frac{28}{11}$	$-\frac{28}{11}R\frac{13}{3}$	" " " " " " " " " " " "
C	$-\frac{18}{7}\frac{4}{7}$	$-\frac{4}{7}R\frac{10}{3}$	Hauptform an mehr. Kr. Von dem nahen $-\frac{11}{4}\frac{1}{2}$ sicher verschieden. <i>Irby</i> giebt diese Form, doch war sie unsicher

Hierzu gehören folgende Winkel:

No.	Buchstaben	Symb.	Bravais	φ	ϱ	ξ_0	η_0	ξ	η	x (Prismen) (x : y)	y	d =tg ϱ
165	II:	+43	4371	25° 17'	73° 54'	55° 57'	72° 17'	24° 13'	60° 18'	1'4792	3'1320	3'4640
166	w:	$+\frac{5}{2}\frac{1}{2}$	5162	8 57	57 45'	13 51	57 26'	7 33'	56 40	0'2466	1'5661	1'5854
167	a	$+\frac{25}{7}\frac{6}{7}$	25'6'31'7	10 31	66 39	22 55	66 18	9 38'	64 31'	0'4227	2'2780	2'3170
168	b	$+\frac{14}{5}\frac{3}{5}$	14'3'17'5	9 31	60 48'	16 29	60 28'	8 18	59 26	0'2959	1'7654	1'7902
169	P	+92	9'2'11'1	9 49'	80 11	44 36'	80 02'	9 41	76 08'	0'9864	5'6950	5'7797
170	D	$-\frac{7}{2}\frac{5}{4}$	14'5'19'4	14 42'	67 37	31 39	66 56'	13 34'	63 26	0'6165	2'3492	2'4286
171	E	$-\frac{7}{4}\frac{7}{22}$	77'14'91'44	8 13	47 41	8 55	47 23'	6 04	47 03	0'1569	1'0872	1'0985
172	F	$-\frac{7}{2}1$	7292	12 13	66 46'	26 15	66 18	11 13	63 55	0'4932	2'2780	2'3307
173	A	$-\frac{31}{8}\frac{5}{4}$	31'10'41'8	13 31'	69 13'	31 39	68 41	12 38	65 22'	0'6165	2'5627	2'6358
174	B	$-\frac{64}{11}\frac{28}{11}$	64'28'92'11	17 16'	76 41'	51 27'	76 05'	16 47'	68 19	1'2554	4'0383	4'2285
175	C	$-\frac{18}{7}\frac{4}{7}$	18'4'22'7	9 49'	58 48	15 44'	58 25'	8 23'	57 26'	0'2818	1'6271	1'6513

Gdt. Index Bd. 1 Seite 375 No. 82 lies: (P) $\frac{10}{3}$ statt (Zephar.)

" " " " " 379 nach No. 137 zuzufügen:

E: --- 14'2'16'3 11'3'5 +4R $\frac{4}{3}$ --- + $\frac{14}{3}\frac{2}{3}$ + 64 + 46 + 15 $\frac{2}{3}$

" " " 1 Seite 380 Zeile 8 vo lies: -16 statt -16'16

Dana Syst. 1892 " 262 " 7 vu " 8'8'16'3 " 2'2'16'3

" " " " 264 " 1 vo " 13° 51' " 13° 5'

" " " " " " 10 " " 76° 08' " 96° 08'

Zeitschr. Kr. Bd. 11	Seite 352	Zeile 6	vu	lies:	— $\frac{28}{23} R \frac{13}{7}$	statt $\frac{28}{23} R \frac{18}{7}$
" " " " " "	" " " " " "	5	" "	" "	— $\frac{16}{17} R \frac{5}{2}$	" $\frac{16}{17} R \frac{5}{2}$
" " " " " "	354	" 5	" "	" "	— $\frac{28}{23} R \frac{13}{7}$	" $\frac{28}{23} R \frac{15}{7}$

Calciostrontianit wurde mit Strontianit vereinigt.

Caledonit. *Schrauf* und *Jeremjew* betrachten den C. als monoklin. *E. S. Dana* (Syst. 924) und *Busz* (Jahrb. Min. 1895. I. 111) halten am rhombischen System fest. Die gewählten Elemente entsprechen dem Mittel aus:

$$\begin{array}{ll} \text{Miller } 0.9163 : 1 : 1.4032 & \text{Rath } 0.9195 : 1 : 1.4062 \\ \text{Koksch. } 0.9175 : 1 : 1.4132 & \text{Busz } 0.9187 : 1 : 1.4041 \end{array}$$

Möglich, dass der C. von *Leadhills* rhombisch ist, der von *Rezbanya* und *Beresowsk* monoklin? (*Busz* S. 115) $g = 0\frac{1}{8}$, $\gamma = -0\frac{1}{10}$, $\omega = 0\frac{1}{2}$, $\chi = -0\frac{1}{20}$, $H = 0\frac{1}{24}$. Symb. unsicher, da Mess. in Zone ac ungünstig \perp Seite nicht sicher untersch. (*Schrauf* Wien. Sitzb. 1871. 64 (I) 179). Es ist zu vermuthen, dass z. B. χH eine rhomb. Gesamtmform bilden.

$$\text{Gemessen: } \left. \begin{array}{l} aH = 86\frac{1}{2} \\ a\chi = 86\frac{1}{2} \end{array} \right\} (\text{Schrauf S. 188})$$

$\Sigma = \frac{3}{2}$ ist nicht ganz sicher. 1 Mess. Refl. ausser Zone (*Schrauf* S. 189).

Gdt. Index Bd. 1 Seite 391 Elemente lies $\mu = 89^{\circ}18$ statt $\mu = 90^{\circ}42$

Carnallit. Für die Winkeltabellen wurde das Mittel aus den Elementen von *Hessenberg* und *Descloizeaux* genommen.

Gdt. Index Bd. 1 Seite 395 Zeile 4 vo lies 1,3891 statt 0,3891

Cerussit. Für die Winkeltabellen wurde die Aufstellung *Hausmann* der des Index vorgezogen. *Gdt.* Index Bd. 1 Seite 403 No. 39 lies ν statt η

Chabasit. Die Formen des Gmelinit, Levyn, Phakolith, Herschelit sind unter die des Chabasit eingereiht (vgl. Herschelit diese Bemerkungen).

Chalcomenit. Für die Winkeltabellen wurde die Aufstellung *Descloizeaux* angenommen, jedoch pq durch 4 getheilt. Einfacher werden die Symbole durch die *Transformation*.

$$pq \text{ (Winkeltabelle)} \doteq \frac{1-2p}{3} \frac{2q}{3} \text{ (II):}$$

a	c	m	f	g	δ	ϵ	β
0	∞	∞	+20	$-\frac{1}{4}0$	$+\frac{1}{2}$	$+\frac{1}{2}\frac{3}{2}$	$+\frac{1}{2}3$ (Winkeltabelle)
$-\frac{1}{3}0$	∞	∞	-10	$+\frac{1}{2}0$	$-\frac{1}{3}$	01	02 (II.)

Gdt. Index Bd. 1 Seite 411 Zeile 7 vo lies 969197; 983331 statt 069197; 083331

Chalcomorphit. *Rath* giebt $a:c = 1:1.8993$ aus $cp = 65^{\circ}36$ (*Pogg. Ann.* 1874 Ergz. 6. 277). Das stimmt nicht und wurde von *Dana* (Syst. 1892. 570) verbessert in $1:1.9091$. Ersterer Werth wurde im Index aufgenommen und ist zu corrigiren. Für die Winkeltabellen wurden die verbesserten Elemente verwendet. Nämlich:

$$a:c_{10} = 1:1.9091; a:c_1 = 3.3067$$

Chalcosiderit. Für die Winkeltabellen wurde die Aufstellung *E. S. Dana* (Syst. 1892. 854) der des Index vorgezogen und *Dana's* Elemente angenommen.

Dana System 1892 Seite 854 Zeile 26 vu lies $64^{\circ}41$ statt $115^{\circ}19$

Childrenit. Für die Winkeltabelle wurde die Aufstellung *E. S. Dana's* der des Index vorgezogen.

Chiolith. Elemente nach *Kokscharow* 1862.

Chloritgruppe (Klinochlor, Ripidolith, Pennin, Kämmererit, Cronstedtit).

Die krystallographischen Verhältnisse sind unklar. Trotz eingehender Vergleichung der Publikationen wurde es mir nicht möglich, klar zu sehen. Von den angegebenen Formen sind die meisten unsicher wegen mangelhafter Ausbildung, versteckter Zwillingsbildung und Aehnlichkeit der Winkel in verschiedenen Richtungen.

Ich halte für wahrscheinlich, dass die verschiedenen Chloritarten isomorph sind, dass sich ihre Formen hexagonal deuten und auf das gleiche (in den Grenzen isomorpher Gruppen schwankende) Axenverhältniss beziehen lassen.

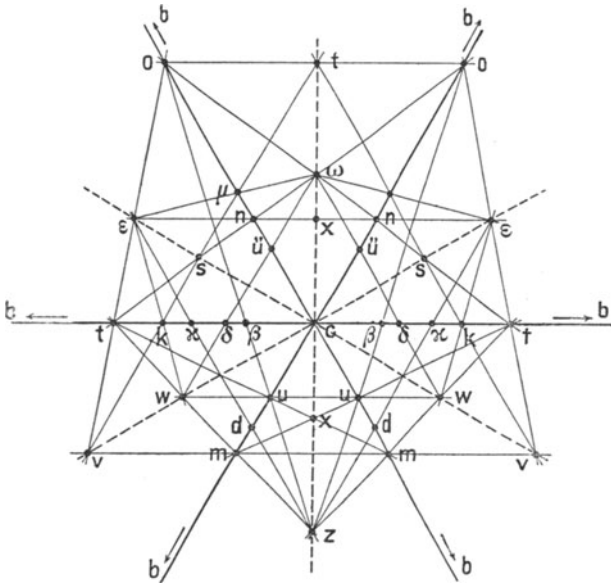


Fig. 23.

Das Projectionsbild (Fig. 23) zeigt das Bekannte so weit abgeklärt, als es mir möglich war; die wahrscheinlichsten Punkte an ihren wahrscheinlichen Ort eingetragen. Die Punkte der steilen Flächen q h χ f sind des Raumes wegen weggelassen. Das Bild fordert zu mancherlei theoretischen Schlüssen heraus, die anzuführen ich unterlasse mit Rücksicht auf die Unsicherheit der Daten.

Nur zu der Form t möchte ich einiges bemerken¹⁾. t ist als ein wichtiger, vielleicht als primärer Knoten der Entwicklung anzusehen. Dafür spricht die Wichtigkeit und die normale Ausbildung der von t ausgehenden Zonenstücke. Wir erkennen das durch Verwandlung der Symbolzahlen in die Form $o \dots \infty$; nämlich:

Zone:	t	s	n	ω	o
Monokl. Symb. pq	$= o \frac{4}{3}$	$\frac{1}{4} \frac{3}{4}$	$\frac{2}{5} \frac{2}{5}$	$\frac{4}{7} 0$	$\bar{1}$
— p	$= o$	$\frac{1}{4}$	$\frac{2}{5}$	$\frac{4}{7}$	1
p : (1 — p)	$= o$	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{4}{3}$	∞
$\frac{3}{2} v$	$= o$	$\frac{1}{2}$	1	2	$\infty = \text{Normalreihe } z.$

Für das hexagonale System sprechen:

1. Die sicher bestimmten Winkel von 60° der horizontalen Axen unter sich, von 90° dieser gegen die Vertical-Axe.
2. Die 60° Winkel der Schlagfigur.
3. Die Einfachheit der Symbole bei hexagonaler Deutung.
4. Die Vertheilung aller beobachteter Formen in sechs Radialzonen, von denen je drei sich unter 60° schneiden und auf den drei anderen senkrecht stehen.
5. Das in vielen Fällen einaxige optische Bild.

Gegen das hexagonale System sprechen:

1. Die Unvollzähligkeit der Flächen.
2. Das oft beobachtete zweiaxige optische Bild.
3. Die eigenartige Rolle der Flächen t im Formenverband.

¹⁾ Vgl. Zeitschr. Kryst. 1897. 28. 32.

Zone:	t	k	κ	δ	P
Monokl. Symb. pq	$= 0\frac{4}{3}$	01	$0\frac{4}{3}$	$0\frac{4}{7}$	0
$\frac{3}{4}q$	$= 1$	$\frac{3}{4}$	$\frac{3}{3}$	$\frac{3}{7}$	0
v : (1 - v)	$= \infty$	3	$\frac{3}{2}$	$\frac{3}{4}$	0
$\frac{2}{3}v$	$= \infty$	2	1	$\frac{1}{2}$	0 = Normalreihe 2

$\beta = 0\frac{4}{9}$ würde in die Reihe passen und sie zu $0\frac{1}{3} \frac{1}{2} 1 2 \infty$ erweitern. Doch stimmt das Symbol nicht gut mit dem berechneten Winkel $0\frac{4}{9} : 0$. Gemessen $46^\circ 46$ (*Descloizeaux*); $46^\circ 16$ (*Tschermak*); berechnet $45^\circ 07$.

Die übrigen von t ausgehenden Reihen führen auf folgende einfache Form:

$$t \times n \times m = 0 \ 1 \ 2 \ \infty; \quad t \ w \ m \ z = 0 \ 1 \ 3 \ \infty$$

Folgende Uebersicht giebt für die in die Winkeltabellen aufgenommenen Formen die monoklinen Symbole neben den hexagonalen und neben dem berechneten Winkel zur Basis (ϱ) den gemessenen resp. den als gerechnet vom Beobachter angegebenen (ϱ). Dabei bedeutet: K = *Kokscharow* (Mat. Min. Russl. 1857. 2. 7), Dx = *Descloizeaux* (Manuel 1862. 1. 442); H = *Hessenberg* (Min. Not. 1866. 6. 28); T = *Tschermak* (Wien. Sitzb. 1890. 99 (1) 174).

Hexagonale Elemente.

c = 3'3890	lg c = 053007	lga ₀ = 970849	lg p ₀ = 035398	a ₀ = 0'5111	p ₀ = 2'2593
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Monokline Elemente.

a = 0'5773	lga = 976144	lga ₀ = 940746	lg p ₀ = 059254	a ₀ = 0'2555	p ₀ = 3'9133
c = 2'2593	lg c = 035398	lgb ₀ = 964602	lg q ₀ = 035398	b ₀ = 0'4426	q ₀ = 2'2593
$\mu = \begin{cases} 90^\circ 00 \\ 180 - \beta \end{cases}$	$\left. \begin{matrix} \lg h \\ \lg \sin \mu \end{matrix} \right\} 0$	$\left. \begin{matrix} \lg e \\ \lg \cos \mu \end{matrix} \right\} -$	$\left. \begin{matrix} \lg \frac{p_0}{q_0} \\ \frac{p_0}{q_0} \end{matrix} \right\} 023856$	h = 1	e = 0

Hexagonal	Monoklin	Beobachtet	Berechnet	Hexagonal	Monoklin	Beobachtet	Berechnet
b	$\infty 0$	$90^\circ 00$ K	$90^\circ 00$	o	20	-1	$77^\circ 31$ K
β	$0\frac{4}{9}$	$46 \ 46$ Dx	45 07	?x	$\frac{4}{11}$	$+\frac{4}{11} 0$	54 54 K
u	$+\frac{2}{7}$	$46 \ 16$ T		?y	$\frac{2}{5}$	$-\frac{2}{5} 0$	(57 52) Dx
δ	$0\frac{4}{7}$	52 08 K	52 14	s	$\frac{1}{2}$	$-\frac{1}{2} \frac{3}{2}$	(63 15) Dx
ϱ	$0\frac{4}{7}$	51 11 Dx		ω	$\frac{4}{7}$	$-\frac{4}{7} 0$	67 ca T
ii	$-\frac{2}{7}$	52 04 T	w	$+\frac{2}{7} \frac{6}{7}$		(65 56) Dx	65 54
n	$-\frac{2}{5}$	61 32 K	61 03	ε	$-\frac{2}{5} \frac{6}{5}$	(72 34) Dx	72 17
d	$+\frac{2}{5}$	60 55 K		z	$+\frac{4}{5} 0$	(72 07) Dx	
κ	$0\frac{4}{5}$	59 30 Dx	66 07	i	-10	75 34 H	75 40
m	$+\frac{1}{2}$	66 03 K		v	$+\frac{1}{2} \frac{3}{2}$	75 39 T	
k	01	(66 18) Dx	66 07	q	-30	85 05 T	85 08
μ	$-\frac{1}{2}$	66 20 T		h χ	$+\frac{3}{2} \frac{2}{2}$	84 57 T	
t	$0\frac{4}{3}$	71 49 K	71 38	f	-40	86 41 H	86 20
		71 20 T		f	+26		

Die Verwandlung der hexagonalen Symbole und Elemente in die monoklinen geschieht nach folgenden Formeln:

$$p \ q \ (\text{Hexag.}) \doteq \left\{ \begin{array}{l} \pm \frac{p+q}{2} \cdot \frac{p-q}{2} \\ \pm \frac{p}{2} \cdot \frac{p+2q}{2} \\ \pm \frac{q}{2} \cdot \frac{q+2p}{2} \end{array} \right\} (\text{Monokl.})$$

$$\begin{array}{l} p_0 \ (\text{Mon.}) = p_0 \sqrt{3} \ (\text{Hex.}) \\ q_0 \ (\text{Mon.}) = p_0 \ (\text{Hex.}) \\ \mu \ (\text{Mon.}) = 90^\circ \end{array}$$

Vgl. Zeitschr. Kryst. 1891. 19. 43. 44. Gegen die dort gegebenen rhombischen sind die $p \ q$ vertauscht und halbt; entsprechend sind die Elemente $p_0 \ q_0$ (Mon.) vertauscht und verdoppelt.

Gdt. Index Bd. 1 Seite 427 Zeile 5 vo lies: $3^{\circ}047 (G_2)$ statt $3^{\circ}047 (G_1)$
 " " " I " 428 zuzufüg.: *Kokscharow*. Mat. Min. Russl. 1862. 4. 134 } (Kämme-
 " " " " " " " " " " " 1866. 5. 55 } rerrit)
 " " " " " " " *Cooke* Amer. Journ. 1867. 44. 201

Chrysoberyll. Für die Winkeltabellen wurde die Aufstellung *Mohs* der des Index vorgezogen.

Claudetit. Elemente und Symbole nach *Al. Schmidt* (Zeitschr. Kryst. 1888. 14. 575).

Cölestin. *Arzruni* und *Thadéeffs* Mittel (Zeitschr. Kryst. 1895. 25. 51.) das mit *Millers* Elementen übereinstimmt, wurde der Rechnung untergelegt.

Stübers neue Formen $v_1 = \frac{5}{4} \frac{1}{2} (524)$ und $\frac{9}{8} (908)$ sind unsicher. Beide gehen durch Rundung in einander über.

Gdt. Index Bd. 1 Seite 449

No. 16 lies: $h \text{ --- } e^2 \text{ --- } h \ \varepsilon_1$ statt $h \text{ --- } e^2 \text{ --- } h \ \varepsilon_1 \text{ ---}$
 " 17 " $\zeta \text{ --- } \text{ --- } \zeta \ \varepsilon$ " $\zeta \text{ --- } \text{ --- } \zeta \ \varepsilon \text{ ---}$

Müler Min. 1852 Seite 528 Zeile 9 vo lies $22^\circ 20$ statt $22 \ 20$

" " " " " " 6 " " sc " sb

" " " " " " 7 " " sb " sc

" " " " " " 15 " " 74 33 " 50 00

" " " " " " 16 " " 60 54 " 69 23

Colemanit. Von den gut übereinstimmenden Messungen von *Rath*, *Hjört Dahl*, *Jackson* wurde das Mittel in Rechnung eingeführt.

Columbit. Für die Winkeltabellen wurde die Aufstellung *Schrauf* der des Index vorgezogen. Die Elemente nach *E. S. Dana's* Messungen. Tantalit mit Columbit vereinigt.

Copiapit. Elemente und Symbole nach *Linck* (Z. K. 1889. 15. 14) mit der Revision *E. S. Dana* (Syst. 1892. 964). Die Symbole sind unnatürlich complicirt. Eine Vereinfachung giebt die *Transformation*: pq (*Linck*) = $\frac{3}{2} p \cdot \frac{3}{2} q$ (II). Immerhin bedarf die Formenreihe der Abklärung durch Neuobservation an günstigerem Material.

Cordierit. Für die Winkeltabellen wurde die Aufstellung *Mohs* der des Index vorgezogen.

Gdt. Index Bd. 1 Seite 468 zuzufügen:

Hausmann 1859 S. 9 No. 16 lies $a : \frac{1}{3} b : \frac{4}{15} c$ statt $a : \frac{1}{3} b : \frac{1}{5} c$
 " " " " " 17 " $a : \frac{1}{3} b : \frac{1}{2} c$ " $a : \frac{1}{3} b : \frac{3}{2} c$

Cotunnit. *Dana* System 1892 Seite 165 zuzufügen: Cleavage a perfect nach *Schabus*.
 Goldschmidt, Winkeltabellen.

Cuspidin. Für die Elemente wurde das Mittel der Bestimmungen von *Rath* (Z. K. 1884. 8. 3 u. 9. 567) in die Rechnung eingeführt.

Gdt. Index Bd. 1 Seite 475 Elemente lies: $\mu = 89^{\circ}40$ statt $\mu = 90^{\circ}20$

Cyanochroit. Für die Elemente wurde das Mittel aus den stark differirenden Angaben von *Brooke* und *A. Scacchi* genommen.

Danburit. Für die Winkeltabelle wurden die Axen PR resp. ac gegen Aufstellung des Index vertauscht.

Gt's neue Formen $\alpha = \frac{2}{3}0(904)$; $\beta = \frac{1}{5}\frac{9}{10}(2.9.10)$ wurden nicht als gesichert angesehen.

Dana System 1892 Seite 490 Zeile 3 vu lies $165^{\circ}11$ statt $166^{\circ}11$

Darapskit. *Osann* Zeitschr. Kryst. 1894. 23. 584.

Datolith. *Dana* System 1892 Seite 502 Zeile 3 vu lies { (115) statt s (115); (s sonst zweimal)

” ” ” ” ” ” 9 ” ” h (126) ” A (126); (A ” ”)

” ” ” ” 503 ” 16 ” ” WW' ” ww'

” ” ” ” ” ” 6 ” ” ii' ” u'

” ” ” ” ” ” 1 ” ” $\Psi\Psi$ ” $\psi\psi$

” ” ” ” ” ” 3 ” zu löschen: $\gamma\gamma' = 97^{\circ}11$

” ” ” ” 505 ” 23 ” lies 280 statt 28'

Zeitschr. Kryst. Bd. 18 ” 286 ” 9 ” ” E : { 431 } statt E : { 421 }

Descloizit. Im Gegensatz zum Index wurde das Krystallsystem rhombisch und die Elemente nach *Rath* (Zeitschr. Kryst. 1885. 10. 464) angenommen.

Diaphorit. Für die Winkeltabellen wurde die Aufstellung *Zepharowich* der des Index vorgezogen.

Dana System 1892 Seite 124 Zeile 21 vo lies $71^{\circ}54$ statt $66^{\circ}58$

Zepharowich Wien. Sitzb. 1871. 63 ” 139 ” 7 ” ” ” ” 66 58 18

Diaspor. Für die Winkeltabellen wurde die Aufstellung *Miller* der des Index vorgezogen.

Dana System 1892 Seite 246 o (292) ist unsicher. Vgl. Index Bemerkungen.

Dickinsonit. Die Elemente des, Index sind nach *E. S. Dana* (System 1892. 809) verbessert.

Dietzeit. *Osann* Zeitschr. Kryst. 1894. 23. 588.

Dioptas. Als Element zur Berechnung der Winkel wurde das Mittel der Angaben von *Miller-Descloizeaux* und *Breithaupt-Kokscharow* angenommen: $a:c_{10} = 1:1.0622$

Dolerophanit. Die Symbole vereinfachen sich durch die *Transformation*:

$$pq(\text{Index}) = -(p+1)q(G_2)$$

Die Aufstellung G_2 wurde den Winkeltabellen untergelegt.

Gdt. Index Bd. 1 Seite 511 *Transformation* lies $-\frac{4}{3(p+1)} \frac{4q}{3(p+1)}$ statt $-\frac{4}{3p+1} \frac{4q}{3p+1}$

Dolomit. *Dana* System 1892 Seite 272. Die Formen u z ρ β sind zu streichen (vgl. *Becke* Min. petr. Mitth. 1890. 11. 24; *Gdt. Index* 3. 415).

Edingtonit. *O. Nordenskjöld* giebt einen Edingtonit von *Bohlet* in Schweden als rhombisch an. $a:b:c=0.9872:1:0.6733$. Beob. Formen: $m=\infty(110)$, $p=0(001)$, $b\frac{1}{2}=1(111)$, $a_3=12(121)$, doch ist die Identität des Minerals mit dem Edingtonit nicht gesichert.
Dana System 1892 Seite 599 Zeile 19 vo lies $64^\circ33$ statt $49^\circ07$

Edisonit wurde mit Rutil vereinigt.

Eggonit ist kein selbständiges Mineral und wurde deshalb weggelassen.

Eis. *Gdt.* Index Bd. 1 Seite 527 die Elemente durch die in d. Winkeltabelle geg. zu ersetzen.
" " " " " " Zeile 4 vo lies $2'4294$ statt $2'800$

Eisenglanz.

Als Element wurde das Mittel von $a:c_{10}=1:1.359$ (*Levy, Miller*)
und $=1:1.3656$ (*Köksch.*) } $=1:1.3623$ genommen.
Ueber *Bückings* neue Formen in *Dana* System 1892 Seite 214 vgl. *Gdt.* Index 1. 537
Unsicher sind ferner ϑ T π ε ω vgl. Index 1. 536; 3. 415

Eisenspath. *Dana* System 1892 Seite 276. Die Form a ist unsicher vgl. Index 1. 540 Bemerk.

Eisenvitriol. *Dana* System 1892 Seite 942 Zeile 3 vo lies $\beta(121)$ statt $s(121)$ [s schon $= (105)$]
" " " " " " " 9 " " $\beta\beta'$ " ss'

Emplektit. Für die Winkeltabellen wurde die Aufstellung *Weisbach* der des Index vorgezogen.
Dana System 1892 Seite 113. Die Symbole mit dem constanten Faktor $\frac{5}{8}$ sind unhaltbar.

Enargit. Für die Winkeltabelle wurde die Aufstellung *Dauber* der des Index vorgezogen.

Endlichit. Var. d. Vanadinit wurde nicht als selbständige Art angesehen.

Eosit. *Gdt.* Index Bd. 1 Seite 553 Elemente lies

$\frac{c}{p_0f}$	$= 1.3778$	$\lg c = 0.13919$	$\lg a_0 = 9.86081$	$a_0 = 0.7258$
------------------	------------	-------------------	---------------------	----------------

Schrauf Wien. Sitzb. 1871. 63. 1 Seite 182 Zeile 20 vo lies 1.3778 statt 1.3758

Eosphorit. Für die Winkeltabelle wurde die Aufstellung *E. S. Dana* der des Index vorgezogen.
Gdt. Index Bd. 1 Seite 555 No. 2 lies 010 statt 001 .

Epididymit. *Flink.* Zeitschr. Kryst. 1894. 23. 353. Zur Vereinfachung der Symbole wurden
Flinks pq halbirt. pq (*Flink*) $\doteq \frac{p}{2} \frac{q}{2}$ (*Gdt.*); pq (*Gdt.*) $\doteq 2p \cdot 2q$ (*Flink*).

Flink Zeitschr. Kryst. 23 Seite 356 Zeile 19 vo lies (304) statt (403)
" " " " " " " 20 u. 21 " " (403) " (304)

Epidot. *Dana* System 1892 Seite 516 Zeile 19 vu lies $\Delta(131)$ statt $\Delta(131)$
" " " " " " " 5 " " $a'y$ " $a'w$
" " " " " " " 2 " " $83^\circ48\frac{1}{2}$ " $85^\circ48\frac{1}{2}$

Epistilbit. Für die Elemente wurde das Mittel der Bestimmungen von *Rose* (*Tenne*) *Trechmann*, *Lüdecke* in die Rechnung eingeführt.

Erythrosiderit. Für die Winkeltabelle wurde die Aufstellung *Scacchi* mit den Elementen *E. S. Dana's* (Syst. 1892. 176) den Annahmen des Index vorgezogen.

Euchroit. Für die Winkeltabelle wurde die Aufstellung *Haidinger* der des Index vorgezogen.

Eudialyt. *Dana* System 1892 Seite 409 Zeile 4 vo lies $67^{\circ}42$ statt $31^{\circ}22$ (NB. $31^{\circ}22$ ist = zC).

Eudnophit ist nach *Brögger* (Z. Kr. 1890. 16. 565) Analcim und entfällt als eigne Art.

Euklas. Für die Winkeltabellen wurde die Aufstellung *Schabus* der des Index vorgezogen.

<i>Gdt.</i> Index Bd. 1	Seite 583	Zeile 8 u. 9	vo lies	$91^{\circ}42$	statt	$101^{\circ}42$
<i>Dana</i> System 1892	„ 508	„ 16	vu	„ $\delta\delta'''$	„	$\theta\theta'''$
„	„	„	„	„ 13	„	$\Theta\Theta'$
„	„	„	„	„ 12	„	ff'
						„ $\varphi\varphi'$

Euxenit. Für die Winkeltabelle wurde die Aufstellung *Brögger* der des Index vorgezogen.

Fahlerz. *Gdt.* Index Bd. 2 Seite 1 No. 2 lies $-\frac{5}{7} \frac{1}{7} \frac{2}{7}$ statt $-\frac{7}{5} \frac{1}{5} \frac{2}{5}$.

Fairfieldit. Für die Winkeltabelle wurde die Aufstellung *Brush u. Dana* der des Index vorgezogen.

Famatinit. Elemente = Enargit.

Fauserit. Nicht sicher definirte Art wurde weggelassen.

Feldspath-Gruppe

Orthoklas. $10^{\circ}8$ (*Solly* Z. Kr. 1885. 10. 524) ist unsicher, Fläche rauh. Diff. d. Mess. 1° .
 $12,10$ (*Cathrein* Z. Kr. 1886. 11 115) gab keinen Reflex. Approx. Messg. unsicher.
 $\frac{2}{3}0, \frac{1}{9}0$ (*Descloizeaux* Z. Kr. 1886. 11. 605). Unsicher. *Descloizeaux* kann nicht bestimmt angeben, ob die beob. Fl. $\frac{2}{3}0$ oder $\frac{1}{9}0$ sei.
 $-\frac{3}{8}0$ (*Cathrein* Z. Kr. 1891. 19. 189) ist wohl als Vicinale anzusehen.
 $0\frac{1}{7}$ („) gab keinen scharfen Reflex, nur ein Winkel gegeben. Die Form erscheint unsicher.

Oligoklas — Andesin — Labradorit. Für diese Zwischenglieder wurden die Winkel nicht ausgerechnet. Die Elemente des Labradorit sind unsicher, und die Winkel des Oligoklas und Andesin unterscheiden sich nur um Minuten von denen des Albit und Anorthit. Man kann sie durch Interpoliren zwischen beide finden. Das ist ebenso zuverlässig, vielleicht noch mehr, als die Bestimmung aus den nicht sicheren Elementen.

Albit. Die Elemente von *Schuster* erschienen nach der kritischen Art ihrer Bestimmung (Min. petr. Mitth. 1886. 7. 391) unter Ausscheidung versteckter Zwillingsbildung als die sichersten, wurden deshalb im Index angenommen. Sie weichen aber von denen der anderen zuverlässigen Beobachter wesentlich ab. Wegen der Wichtigkeit des Minerals und der theoretischen Bedeutung der Frage wurde die Winkeltabelle sowohl für die Elemente von *Schuster* als für die von *Brezina*, denen die übrigen nahe stehen, berechnet und abgedruckt (vgl. Index 2. 22).

<i>Gdt.</i> Winkeltabelle	Seite 141	No. 13	lies	25 48	statt	64 12
„ Index Band 2	„ 27	„ 3	„	h— — ah	„	k— — qh—
„	„	„	„	33	„	$\eta \dots 112 \frac{1}{2} P' \dots f^1 \frac{1}{2} O$
„	„	„	„	24	„	$\omega \dots 112 \frac{1}{2} P \dots d^1 \frac{1}{2} O$
<i>Dana</i> System 1892	„ 327	Ref. Rhomb.	Schnitt zuzufügen	<i>Gdt.</i> Ueb. Proj. und graph. Kr. Ber. 1887. 64		

<i>Dana</i>	System 1892	Seite 328	Zeile 4	vu	lies	316	statt	216
"	"	"	"	338	"	8 vo	"	p(111) " p(211)
"	"	"	"	"	"	9 " "	"	g(221) " g(121)
<i>Glinka</i>	Zeitschr. Kryst. 22	"	63	"	4 vu	"	"	{111} " {111}
<i>Franck</i>	"	"	23	"	477	"	16	" " {403} " {403}

Feuerblende. Krystallsystem, Elemente und Symbole etwas unsicher. Bis auf bessere Kenntniss mit Xanthokon vereinigt (vgl. *Miers*, Zeitschr. Kryst. 1894. 22. 461).

Fiederlit. *Rath's* Symbole sind ganz abnorm. Auch die Index 3. 371 sind nicht befriedigend. Zu einer Aufstellung G_2 mit etwas einfacheren Symbolen kommt man durch die *Transformation*:

$$pq(Rath) = \frac{4}{3} p \cdot q (G_2)$$

G_2	$\infty 0$	o	$\infty(?)$	$\infty \frac{5}{4}$	$-\frac{4}{3} 0$	$-\frac{2}{3} 0$	$\frac{1}{6} 1$	$\frac{4}{7} 1$	$\frac{4}{3} 1$	1	$-\frac{1}{3} 1$
Buchst.	a	c	n	m	y	x	e	i	o	u	p
<i>Rath</i>	$\infty 0$	o	$\frac{6}{5} \infty$	∞	$-\frac{5}{3} 0$	$-\frac{5}{6} 0$	$\frac{5}{24} 1$	$\frac{5}{7} 1$	1	$\frac{5}{4} 1$	$\frac{5}{2} 1$

Bei n ist ∞ gesetzt statt $\infty \frac{2}{4}$, wie es die *Transformation* giebt. na beob. = $33^\circ 32'$ ber. = $32^\circ 36'$. Die Differenz ist gross, doch vielleicht aus *Rath's* Erwähnung der Flächenstörungen erklärlich. Neubeobachtungen zur Aufklärung wären erwünscht.

<i>Gdt.</i> Index Bd. 3	Seite 371	Zeile 10	vu	lies:	0'8915	statt	0'8192
"	"	"	"	"	9	"	0'8192:1:0'8915 " 0'8915:1:0'8192
"	"	"	"	"	8	"	1'1026 " 1'200

Fillowit. *Gdt.* Index Bd. 2 Seite 43 Elemente lies: 976 188 statt 876 188

Fischerit. Für die Winkeltabelle wurde *Kokscharows* Aufstellung der des Index vorgezogen.

Flinkit. *Hamberg.* Geol. För. Förh. 1889. Zeitschr. Kryst. 1891. 19. 102.

$p = 0 \frac{1}{10}$; $m = 0 \frac{1}{4}$; $n = 0 \frac{2}{7}$ wurden als unsicher weggelassen.

Hamberg. Zeitschr. Kryst. Bd. 19 Seite 103 Zeile 15 vo lies: $60^\circ 47'$ statt $60^\circ 27'$

Fluocerit. *Nordenskjöld.* Stockh. Ofvers. Ak. Förh. 1870 Seite 550 lies $119^\circ 14'$ statt $118^\circ 14'$

Flussspath. *Gdt.* Index Bd. 2 Seite 51 No. 7 lies e statt q

Freieslebenit. Für die Winkeltabellen wurde die Aufstellung *Miller* der des Index vorgezogen.

Gdt. Index Bd. 2 Seite 57 und 59 zuzufügen:

e	430	$\frac{4}{3} \infty$	o	032	$0 \frac{3}{2}$
d	450	$\infty \frac{5}{4}$	i	051	05
q	018	$0 \frac{1}{8}$	φ	112	$-\frac{1}{2}$
σ	054	$0 \frac{5}{4}$			

" " " 2 Seite 58 zuzufügen: *Bücking* Zeitschr. Kryst. 1878. 2. 425.

Friedelit. Die Elemente von *Bertrand* $c_{10} = 0.5624$ und von *Flink* $c_{10} = 0.5317$ differiren stark. Es wurde das Mittel mit 0.5470 in Rechnung gestellt.

Gadolinit. Für die Elemente wurde das Mittel der Angaben von *Descloizeaux* und *Eichstädt* (Zeitschr. Kryst. 1887. 12. 523) eingeführt. $\beta = +\frac{1}{2}$, $d = +12$ wurde nach *Eichstädt* als fraglich bezeichnet.

Ganophyllit. *Hamberg.* Geol. För. Förh. 1890. 12. 586. Zeitschr. Kryst. 1892. 20. 387.

Gerhardt. Die hochzahligen Symbole $\frac{7}{10}$ und $\frac{13}{20}$ erscheinen in Anbetracht der starken Winkelschwankungen als unsicher.

Glaserit. Ueber das hexagonale System des Glaserit vergleiche:

Scacchi, Att. Ac. Napoli (1870) 1873. 5. 29. (Aftalosa.)

Bücking, Zeitschr. Kryst. 1889. 13. 567. Anm.

Strüver, Rend. Ac. Linc. 5. 750. Zeitschr. Kryst. 1892. 20. 174. (Aphtalose.)

Glauberit. *Gdt.* Index Bd. 2 Seite 87 No. 10 lies $\varepsilon \varepsilon$ statt e e

Glaubersalz. *Gdt.* Index Bd. 2 Seite 89 Elemente lies 99735² statt 99567²

Glaukodot. In die Rechnung wurde der Mittelwerth der Elemente von *Lewis* und *Becke* eingeführt.

Glimmer. Das Krystallsystem ist unsicher. Wahrscheinlich monoklin oder hexagonal. Es wurden die Winkel mit Symbolen rhombischer Deutung (monoklin, $\beta = 90^\circ$) angeschrieben. Die Positionswinkel sind davon nicht abhängig. Von allen Formen sind nach *Descloiseaux* nur P o m M p z γ d t x als sicher anzusehen. Alle anderen sind zweifelhaft.

Gmelinit. Die Formen des Gmelinit wurden unter die des Chabasit eingereiht.

Göthit. Für die Winkeltabelle wurde die Aufstellung *Mohs* der des Index vorgezogen.

Granat. *Gdt.* Index Bd. 2 Seite 107 nach No. 1 zuzufügen: F 106 $\frac{1}{2}0$ 60 60.

Graphit. a : c₁₀ = 1 : 1386 p₀ = 996569 entspricht besser *Kennigotts* p o = 58° als das 1 : 399 des Index. Die Aenderung wurde für die Winkel angenommen. Sie ist nicht wesentlich in Betracht der Ungenauigkeit der Bestimmung.

Greenockit. Die Bestimmungen des Elements durch *Kokscharow* c₁₀ = 0·8126 und durch *Mügge* c₁₀ = 0·8109 erscheinen als die genauesten. Sie differiren wenig. Das Mittel c₁₀ = 0·8118; c₁ = 1·4061 wurde der Rechnung untergelegt.

Die Formen $g = \frac{1}{2}0(10\bar{1}4)$; $h = \frac{1}{3}0(10\bar{1}3)$ sind zu löschen. *Groth* (Strassb. Samml. 1878. 30) giebt eine unsichere Form zwischen beiden, *Mügge* (Jahrb. Min. 1882. 2. 22. Fussn.) erwähnt einen äusserst schwachen Reflex von Lage $\frac{1}{3}P$, nimmt aber die Form nicht auf.

Gdt. Index Bd. 2 Seite 115 sind die Zeilen No. 8 und 9 zu löschen.

Guarinit. Für die Winkeltabellen wurden gegen die Aufstellung des Index p q 1 in q 1 p vertauscht.

Guejarit ist nach *Penfield's* Untersuchungen identisch mit *Wolfsbergit* und wurde mit diesem vereinigt.

Gyps. Für die Winkeltabelle wurde die Aufstellung *Mohs* der des Index vorgezogen.

Die neue Form $\xi = +\frac{1}{3}\frac{2}{3}(123)$ wurde von *A. Nies* als Gleitfläche scharf und gross ausgebildet an Gyps von Girgenti beobachtet. Bestimmt durch die Zone $\lambda b = \frac{1}{3}0:00$ und den Winkel $\xi \lambda = 14^\circ 31'$; berechnet $14^\circ 32'$. (Ber. Oberrh. geol. Ver. 1896. 9. Apr.) $\delta = \infty\frac{5}{3}(350)$ von *Kraatz* beobachtet. (Zeitschr. Kryst. 1897. 27. 604.)

Dana Syst. 1892 Seite 934 Zeile 4 vo lies: a e = 87° 29' statt d e = 87° 49'.

- Hambergit.** Für die Winkeltabelle wurde die Aufstellung *Brögger* der des Index vorgezogen.
- Hamlinit.** *Penfield* und *Hidden*. Am. Journ. 1890. 39. 511. Zeitschr. Kryst. 1892. 20. 415.
- Hannayit.** Für die Winkeltabelle wurde die Aufstellung *Rath* der des Index vorgezogen.
- Harmotom.** Für die Winkeltabelle wurde die Aufstellung *Descloizeaux* der des Index vorgezogen.
- Harstigit.** *Dana* Syst. 1892 Seite 532 Zeile 17 vu lies: an statt am.
- Hausmannit.** Für das Element wurde das Mittel aus den Angaben von *Dauber* und *Flink* (Zeitschr. Kryst. 1892. 20. 369) genommen.
- Hauyn.** *Gdt.* Index Bd. 2 Seite 141 No. 4 lies: 202 statt 20.
- Hedyphan.** *Sjögren*. Bull. Geol. Inst. Upsala 1892. 1. 1. Zeitschr. Kryst. 1895. 24. 140.
- Helvin.** *Dana* Syst. 1892 Seite 434 Zeile 12 vo lies; $\beta(323)$ statt $\beta(322)$.
- Herderit** wurde nach *Penfield* (Z. Kr. 1894. 23. 118) monoklin gegeben. Der Rechnung wurden nach *Penfield's* brieflichem Vorschlag (5. Juni 1896) nur die Elemente des Hydroherderit untergelegt, weil durch Wechsel von F mit OH die Zusammensetzung und damit die Elemente des Hydrofluor-Herderit schwanken. Das von *Penfield* als unsicher bezeichnete $y = \frac{2}{3}z$ uns. Aufst. wurde weggelassen.
- Herregrundit.** Gegen die Aufstellung des Index wurden die Axen PR resp. AC vertauscht. An Stelle von $\delta = \frac{1}{7}o$, $d = -\frac{1}{7}o$ ist vielleicht $\pm \frac{3}{2}o$ zu setzen. Gem.: $\delta c = 46^\circ 44' - 48^\circ 01'$; $d c = 47^\circ 42' - 49^\circ 04'$. Berechn.: $+\frac{3}{2}o : o = 49^\circ 28'$; $-\frac{3}{2}o : o = 49^\circ 50'$. Jedenfalls ist $\pm \frac{1}{7}o$ in Anbetracht des complicirten Symbols und der starken Winkelschwankungen unsicher.
- Herschelit.** Die Formen des Herschelit wurden mit denen des Chabasit vereinigt. Sie sind, bezogen auf das Element des Chabasit (Aufst. G₂): $m = \infty$, $\alpha = -\frac{1}{4}$, $\beta = -\frac{1}{2}$.
Bei *Descloizeaux* (Manuel 1862. 1. 398) stimmen die gerechneten Winkel nicht zu den Symbolen und dem angenommenen Element des Gmelinit. Es ist vielmehr zu setzen: a^{10} statt a^7 ; $a^{\frac{14}{5}}$ statt $a^{\frac{11}{5}}$. Messung und Rechnung differiren stark; die Messungen sind nur genähert. Trotzdem sind die Symbole wegen ihrer Einfachheit wahrscheinlich. $-\frac{1}{2}$ ist beim Chabasit bekannt.
- Hjelmit.** *Weibull* Geol. För. Förh. 1887. 9. 371. Zeitschr. Kryst. 1889. 15. 104.
Dana Syst. . . . 1892. 741
Weibull Zeitschr. Kryst. 15 Seite 105 Zeile 1 vo lies: {201} statt {102}
- Hintzeit** (Milch) = **Heintzit** (Lüdecke). Der Name *Hintzeit* wurde vorgezogen, da er einen bekannten Mineralogen ehrt, während *Dr. Heintz* der Mineralogie fern steht.
Gdt Index Bd. 3 Seite 373 Zeile 13, 14, 15 vo zuzufügen: $-\frac{1}{2}$, $\bar{1}12$, o
Dana Syst. 1892 " 885 " 17 " lies: 2'1937 statt 2'9137
- Hjordt Dahlit.** Elemente nach *Dana* Syst. 1892. 377. Die Winkel sprechen für das tetragonale System.
Vergleich. Wöhlerit: $p_o = 0.338$ $q_o = 0.357$ $r_o = 1$ $\lambda\mu\nu = 90^\circ$ (Dauber)
Zirkon: $p_o = 0.640$ $q_o = 0.640$ $r_o = 1$ $\lambda\mu\nu = 90^\circ$ (Kupf.)
Tapiolit: $p_o = 0.646$ $q_o = 0.646$ $r_o = 1$ $\lambda\mu\nu = 90^\circ$ (Nsk.)
Fergusonit: $p_o = 1.464$ $q_o = 1.464$ $r_o = 1$ $\lambda\mu\nu = 90^\circ$ (Haid.)
Dana Syst. 1892 Seite 377 Zeile 26 vu lies: M (110) statt M (110)
" " " " " " 25 " " g (111) " g (111)

Dana konnte die Formen von *Descloizeaux's* Typus 2 mit den seinigen identificiren. Für die des Typus 1 gelang es ihm nicht. Auch mir ist es nicht gelungen, sie organisch dem Formensystem des Hureaulit einzureihen. Sollten sie einer anderen Krystallart angehören?

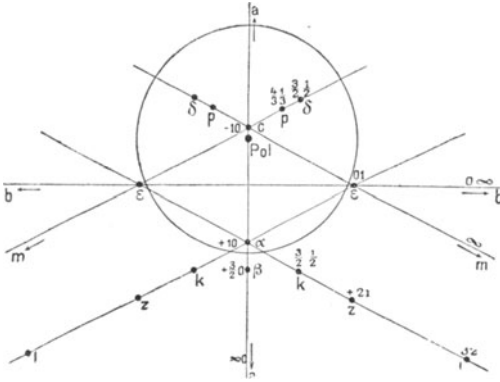


Fig. 24, Dana's Formen.

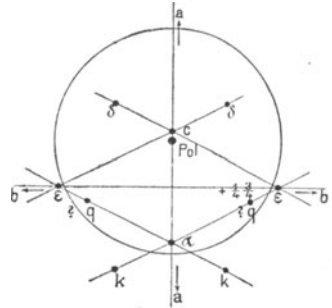


Fig. 25, Descloizeaux's Typ. 2.

Für die Wahl obiger Aufstellung (*Gdt.*) sprechen ausser der Einfachheit der Symbole die Projectionsbilder Fig. 24 (*Dana's* Formen) und Fig. 25 (*Descloizeaux's* Typ. 2). Sie zeigen die wichtigsten Punkte an den bevorzugten Stellen, 0∞ , $\infty 0$, ∞ , 01 , ± 10 .

Ein Vergleich beider Figuren zeigt die Richtigkeit von *Dana's* Identification. Wir sehen *Descloizeaux's* Formen die gleichen Hauptpunkte einnehmen; die gleichen Zonen, nur schwächer besetzt. Auch das fragliche q reiht sich gut ein.

Dana Syst. 1892 Seite 832 Zeile 7 vu lies; $45^{\circ}10$ statt $49^{\circ}10$.

Hydromagnetit. Kryst. System unsicher. Mit *Dana* (System 1892. 304) rhombisch resp. monoklin $\mu = 90^{\circ}$ angenommen.

Idokras. Spezielle Discussion zeigt, dass die Aufstellung *Lévy* vorzuziehen ist. $p_0 = 0.7603$. Für die Winkeltabellen wurde trotzdem die Aufstellung *Mohs-Zepharowich* beibehalten, da sie allgemein üblich ist.

$e = 35$, $r = 46$, $g = \frac{5}{2}10$, $F = 7.13$ sind nicht sicher. (*Groth* und *Bücking*, Strassb. Samml. 1878. 199. 200) e , r gestatteten nur approx. Messung. g war stets uneben und gebrochen. F , schmal aber glänzend, dürfte als Vicinale zu $\infty 2$ anzusehen sein.

Gdt. Index Bd. 2 Seite 198 zuzufügen:

Miller Min. 1852 Seite 327 Zeile 16 vu lies 101 , 001 statt 010 , 001

Dana Syst. 1892 Seite 478 Zeile 1 vo $Q = (10 \cdot 10 \cdot 1)$ ist unsicher
 " " " " " " 5 " $Y = (17 \cdot 4 \cdot 4)$ } (*Korn*) ganz } vgl. Index Bemerk.
 " " " " " " 11 " $A = (544)$ } unsicher }

Johnstrupit wurde mit Mosandrit vereinigt. Für die Winkeltabelle wurde die Aufstellung *Brögger* der des Index vorgezogen.

Jordanit. *Dana* Syst. 1892 Seite 141 Zeile 8 vu lies $50^{\circ}04$ statt $50^{\circ}41$
 " " " " " " 5 " " $127^{\circ}34$ " $152^{\circ}20$

Kainit. Für die Winkeltabelle wurde die Aufstellung *Groth* der des Index vorgezogen.

Kalisalpeter. Für die Winkeltabelle wurde die Aufstellung *Mohs* der des Index vorgezogen.

Kalomel. *Dana* Syst. 1892 Seite 153 Buchst. β zweimal; $\beta = 1\frac{1}{3}$ (313) ist unsicher, vgl. Index 2'222

„ „ „ „ „ Zeile 11 vu lies 27°03 statt 37°27

„ „ „ „ „ „ „ „ „ 66°16 „ 65°16

Kaolin. *Gdt. Zeitschr. Kryst.* 1890. 17. Seite 57 lies $\left. \begin{matrix} H_2 \\ Si_2 \end{matrix} \right\} O_8$ statt $\left. \begin{matrix} K_2 \\ Si_2 \end{matrix} \right\} O_8$

Kentrolith. Für die Winkeltabelle wurde die Aufstellung *Rath* der des Index vorgezogen. Elemente nach *Flink* Z. K. 1892. 20. 370.

Gdt. Index Bd. 2 Seite 225. Statt der gegebenen Axen-Verh. u. Elemente lies:

$$a : b : c = 0.7173 : 1 : 1.1325 \quad (Gdt.)$$

$$[a : b : c = 0.6333 : 1 : 0.883] \quad (Rath)$$

Elemente.

a = 0.7173	lg a = 985570	lg a ₀ = 980166	lg p ₀ = 019834	a ₀ = 0.6334	p ₀ = 1.5792
c = 1.1325	lg c = 005404	lg b ₀ = 994596	lg q ₀ = 005404	b ₀ = 0.8330	q ₀ = 1.1325

Gdt. Index Bd. 2 Seite 226 zuzufügen:

Rath *Zeitschr. Kryst.* 1881. 5. 34 Zeile 6 vu lies 0.883 : 1 statt 0.784

Der Fehler in *Rath's* Angabe wurde nicht bemerkt. Seine Berichtigung veranlasst obige Correcturen. *Panbianco* *Rivista.* 1891. 8. 68 hat ihn aufgefunden.

Kieserit. Für die Winkeltabellen wurde das Mittel aus den stark differirenden Elementen von *Tschermak* (corr. durch *E. S. Dana* Syst. 1892. 932) und *Bücking* (Berl. Sitzber. 1895. 534) eingeführt.

Kobaltblüthe. Aufstellung und Elemente *Brezina* wurden angenommen (Index 3. 418).

Kobaltvitriol. *Gdt. Index* 3. 376 zu löschen und mit **Bieberit** Index 1. 303 zu vereinigen.

Koppit. *Gdt. Index* Bd. 2 Seite 242 Zeile 2 vo lies 1875 statt 1865.

Kornerupin ist wahrscheinlich = **Prismatin** (*E. S. Dana* Syst. 1892. 561).

Kraurit. Für die Winkeltabelle wurde die Aufstellung *Streng* der des Index vorgezogen.

Krennerit. Für die Winkeltabelle wurde die Aufstellung *Krenner* der des Index vorgezogen.

Für die Elemente wurde das Mittel von *Krenner*, *Rath*, *Schrauf*, *Miers* eingeführt.

Dana System 1892 Seite 105 Zeile 8 vo lies co statt cp

„ „ „ „ „ „ „ „ „ oo''' „ pp'''

„ „ „ „ „ „ 9 „ „ oo' „ pp'

Kröhnkit. Die Elemente sind nach *Darapsky* mit der Correctur von *E. S. Dana* (System 1892. 958) angenommen.

Gdt. Index Bd. 2 Seite 376 zuzufügen:

$$0.4729 : 1 : 0.3072 \quad \beta = 115^\circ 52 \quad (Darapsky)$$

$$0.4462 : 1 : 0.4325 \quad \beta = 107^\circ 19 \quad (Darapsky \text{ corr. } E. S. Dana)$$

∞∞ ∞ 01 1
 010 110 011 111
 b m e p

Darapsky Jahrb. Min. 1889. 1. 192 Zeitschr. Kryst. 1891. 19. 307

Dana E. S. System 1892. 958.

” ” 1892 Seite 958 Zeile 22 vu lies: m(110, I) statt m(100, I).

Kryolith. *Gdt.* Index Bd. 2 Seite 253 Zeile 4 vo lies 1'3883 statt 1'3383

” ” ” ” ” ” Elemente ” :

a = 0.9662	lg a = 998507	lg a ₀ = 984259	lg p ₀ = 015741	a ₀ = 0.6960	p ₀ = 1.4368
c = 1.3883	lg c = 014248	lg b ₀ = 985752	lg q ₀ = 014248	b ₀ = 0.7203	q ₀ = 1.3883
$\mu = \left. \begin{matrix} \\ 180-\beta \end{matrix} \right\} 89^{\circ} 49$	$\lg h = \left. \begin{matrix} \\ \lg \sin \mu \end{matrix} \right\} 0$	$\lg e = \left. \begin{matrix} \\ \lg \cos \mu \end{matrix} \right\} 750512$	$\lg \frac{p_0}{q_0} = 001493$	h = 1	e = 0.0032

Kupferglanz. Für die Winkeltabelle wurde die Aufstellung *Rose* der des Index vorgezogen.

Kupferindig.

Gdt. Index Bd. 2 Seite 263 *Transformation* lies $\frac{2}{3}(p+2q) \frac{2}{3}(p-q)$ statt $\frac{p+2q}{2} \frac{p-q}{2}$

” ” ” ” ” ” ” ” $2p \cdot 2q$ ” $\frac{2}{3}p \frac{2}{3}q$
 ” ” ” ” ” ” ” ” $2(p+2q) 2(p-q)$ ” $\frac{8}{3}(p+2q) \frac{8}{3}(p-q)$
 ” ” ” ” ” ” ” ” $\frac{p+2q}{6} \frac{p-q}{6}$ ” $\frac{p+2q}{8} \frac{p-q}{8}$
 ” ” ” ” ” ” ” ” $\frac{1}{2}(p+2q) \frac{1}{2}(p-q)$ ” $\frac{2}{3}(p+2q) \frac{2}{3}(p-q)$
 ” ” ” ” ” ” ” ” $\frac{1}{2}p \cdot \frac{2}{3}q$ ” $\frac{2}{3}p \cdot \frac{2}{3}q$

Kupferkies. *Dana* Syst. 1892 Seite 80 Buchst. u₁ kommt zweimal vor. li sind unsicher.

Kupferlasur. *Zimanyi* Z. Kr. 1892. 21. 86 neue Formen: $-\frac{2}{3}0$, $-\frac{4}{3}0$, $-\frac{5}{3}0$

Hobbs ” 1895. 25. 27 ” $+\frac{3}{7}0$, $-\frac{2}{3}0$

Kupfervitriol. Für die Winkeltabelle wurden die Axen gegen die Aufstellung des Index vertauscht, so dass:

$$p q (\text{Index}) = \frac{q}{p} \frac{1}{p} (G_2)$$

Zu G₂ gehören die für die Winkeltabellen angenommenen Elemente.

Miller Min. 1852 Seite 556 Zeile 16 vo lies 36 4 statt 35 4

Lanarkit. *Gdt.* Index Bd. 2 Seite 281 *Transformation*

lies $\frac{3p-1}{2} q$ statt $(3p-1) q$

” $\frac{2p+1}{3} q$ ” $\frac{p+1}{3} q$

No. 6 ” $1 \cdot 10 \cdot 5 + 2 P \dot{1} 0 - \frac{1}{5} 2$ ” $1 \cdot 10 \cdot 5 - 2 P \dot{1} 0 + \frac{1}{5} 2$

Vic. Formen No. 1 ” $69 \cdot 1 \cdot 15 + \frac{23}{5} P \dot{6} 9 - \frac{23}{5} \frac{1}{15}$ ” $12 \cdot 1 \cdot 5 \frac{1}{5} P \dot{1} 2 - \frac{1}{5} \frac{1}{5}$

Langit. Für die Winkeltabellen wurden die Axen PR resp. ac des Index vertauscht.

Lanthanit. Für die Winkeltabelle wurde die Aufstellung *Lang* der des Index vorgezogen.

- Laumontit.** Für die Winkeltabelle wurde die Aufstellung *Lévy* der des Index vorgezogen.
Gdt. Index Bd. 2 Seite 289 No. 6 lies $103 + \frac{1}{3} P \infty - \frac{1}{3} 0$ statt $103 - \frac{1}{3} P \infty + \frac{1}{3} 0$
- Laurionit.** Für die Winkeltabelle wurde *Köchlin's* Aufstellung der des Index vorgezogen.
- Lautarit.** *Osann Zeitschr. Kryst. 1894. 23. 586.*
- Lavenit.** Elemente und Symbole nach *Brögger* (*Zeitschr. Kryst. 1890. 16. 339*). *Brögger* bezeichnet das von ihm früher gegebene Axenverhältniss (*Index 2. 295*) als ungenau.
- Lawsonit.** *Ransome und Palache Zeitschr. Kryst. 1895. 25. 531.*
- Lazulith.** Die Elemente sind nach *E. S. Dana* (*Syst. 1892. 789*) gegeben, der *Prüfer's* Angaben nachgerechnet hat.
- Leadhillit.** *Gdt. Index Bd. 2 Seite 303 No. 4, 9, 26* die ganzen Zeilen zu löschen.
 " " " " " " " " 20 lies p — p statt v — v
 " " " " " " " " 29 " v — v " τ — —
 " " " " " " " " 30 " ω 0 — " ω — —
 " " " 3 " 396 Zeile 11 vo " Susannit (s. Anh.) = Leadhillit (?) statt
 Susannit = Leadhillit
Dana System 1892 " 921 " 24 vu " 86°6' statt 85°6'
 " " 1875 " 625 Fig. 521 " $\frac{2}{3} \bar{2}$ " $\frac{2}{3} \bar{2}$
- Lecontit.** *Gdt. Index Bd. 3 Seite 377 Zeile 9 vu* lies: $0 \cdot 7848 : 1 : 1 \cdot 5317$ statt $0 \cdot 7926 : 1 : 1 \cdot 5477$
 " " " " " " " " 8 " " $q_0 = 1 \cdot 5317$ " $q_0 = 1 \cdot 5477$
- Leucit** wurde als regulär angesehen.
- Leukophan.** *Gdt. Index Bd. 2 Seite 309 No. 34* lies $8 \cdot 7 \cdot 12 \frac{2}{3} \bar{P} \frac{8}{7} \frac{2}{3} \frac{1}{2}$ statt $8 \cdot 7 \cdot 24 \frac{1}{3} \bar{P} \frac{8}{7} \frac{1}{3} \frac{7}{24}$
 " " " " " " " " 33 " $445 \frac{4}{3} P \frac{4}{3}$ " $455 \bar{P} \frac{5}{4} \frac{4}{3} 1$
- Libethenit.** Rhombisch. Mit *E. S. Dana* (*Syst. 1892. 786*) wurden *Rose's* Elemente angenommen.
Gdt. Index Bd. 2 Seite 313 zuzufügen: $t t 201 2 P \infty 20$
Dana System 1892 " 786 Zeile 7 vo lies $\delta(310, i - \bar{3})$ statt $\delta(013, \frac{1}{3} - \bar{3})$
- Lievrit.** Für die Winkeltabelle wurde die Aufstellung *Mohs* der des Index vorgezogen.
Dana System 1892 Seite 542 Zeile 15 vu lies *Z. K. 1883. 7. 609; 1885. 9. 243* statt
Z. K. 1883. 7. 243.
- Löllingit.** *Brögger's* Elemente wurden an Stelle der Elemente von *Schrauf* gesetzt, die vielleicht von Messungen an Arsenkies herrühren; vgl. *Groth Münch. Ak. Ber. 1885. 384.*
Dana Syst. 1892. 97.
- Löweit.** *Gdt. Index Bd. 3 Seite 378 Zeile 4 vo* lies $10(101)$ statt $1(111)$.
- Ludwigit.** *Mallard Bull. soc. franç. 1888. 11. 310 Zeitschr. Kryst. 1889. 15. 650.*
- Lunnit.** Für die Winkeltabellen wurde die Aufstellung *Schrauf* der des Index vorgezogen.
Gdt. Index Bd. 2 Seite 331 Zeile 5 vo lies $90^{\circ}39' : 91^{\circ}0' : 89^{\circ}29'$ statt $89^{\circ}29' : 91^{\circ}0' : 90^{\circ}39'$
 " " " " " " " " 6 " " $89^{\circ}29' : 91^{\circ}0' : 90^{\circ}39'$ " $90^{\circ}39' : 91^{\circ}0' : 89^{\circ}29'$

- Magnesit.** *Gdt.* Index Bd. 2 Seite 335 No. 2 lies: a statt q.
- Magnetkies.** Statt des Elementes des Index wurde das von *Seligmann* angenommen, das *Busz* bestätigt (Jahrb. Min. 1895. 1. 124); umgerechnet in Aufstellung des Index.
Für *Dana's* $\frac{2}{3}0$ setzt *Busz* 70. Die entsprechende Form fand *Busz* am Breithauptit (Jahrb. Min. 1895. 1. 119). Für die angenommenen Elemente stimmt 70 mit der Messung $70:0 = 81^{\circ}28$ $cy = 81^{\circ}30$ (*Dana*)
Busz Jahrb. Min. 1895. 1 Seite 126 Zeile 4 vo lies $81^{\circ}28$ stat $80^{\circ}37'$ 59.
- Malachit.** *Dana* System 1892 Seite 294 Zeile 6 vu lies 201 statt 201.
- Manganit.** Für die Winkeltabellen wurde die Aufstellung *Mohs* der des Index vorgezogen.
- Manganspath.** *Gdt.* Index Bd. 2 Seite 355 No. 2 lies a statt q
Dana System 1892 " 278 Zeile 25 vo " $43^{\circ}26$ " $42^{\circ}26$.
- Marialit.** Mit Wernerit vereinigt (Index 3. 130).
- Markasit.** Die Elemente differiren stark bei den verschiedenen Beobachtern. Es wurde das Mittel aus den Angaben von *Miller*, *Sadebeck*, *Gehmacher* eingeführt.
- Marshit.** Zeitschr. Kryst. 24 Seite 660 (Register) Zeile 2 vo lies 207 statt 205.
- Mascagnin.** Für die Winkeltabelle wurde die Aufstellung *Mitscherlich* der des Index vorgezogen.
- Mazapilit.** Das Mittel der Elemente von *Descloizeaux* (Bull. soc. franç. 1889. 12. 441) und *König* (Z. Kr. 1890. 17. 85) wurde in Rechnung gestellt. *Descloizeaux* hält *König's* Messungen für falsch. *E. S. Dana* nimmt sie in sein System auf.
- Meionit.** Mit Wernerit vereinigt (Index 3. 130).
- Melanglanz.** Für die Winkeltabellen wurde die Aufstellung *Haidinger* der des Index vorgezogen
Dana System 1892 Seite 144 Zeile 22 vo lies UU' statt uu'
Artini Zeitschr. Kryst. 23 " 184 " 18 u. 19 " " (101) " 010
- Mendipit.** Für die Winkeltabellen wurde die Aufstellung *Haidinger* der des Index vorgezogen.
Dana System 1892 Seite 170 Zeile 27 vo lies 0'8012 statt 0'8005 (entspr. $38^{\circ}42$).
- Meneghinit.** Für die Winkeltabellen wurde die Aufstellung *Krenner* der des Index vorgezogen.
Das Mittel der wenig differirenden Elemente von *Krenner* und *Miers* wurde eingesetzt.
Dana System 1892 Seite 142. Die Formen i h k δ y q vielleicht auch δ sind nicht ganz sicher, vgl. Index Bemerkungen.
- Miargyrit.** Es wurden die von *E. S. Dana* (System 1892. 116) corrigirten Elemente von *Lewis* benutzt.
Dana System 1892 Seite 116 Zeile 11 vo lies $\mu(702, +\frac{7}{2} - i)$ statt $\mu(702, -\frac{7}{2} - i)$
 $\delta = \frac{1}{4}1$ (13'44) ist nach *Weisbach's* brieflicher Mittheilung (3. Juni 1890) zu streichen.
- Mikrosommit.** Wegen der Wichtigkeit von ix ist *Rauff's* Aufstellung mit a:c = 1:0'8367, p₀ = 0'9660 vorzuziehen.
- Millerit.** *Gdt.* Index Bd. 2 Seite 395 Zeile 5 u. 6 vo lies 1:0'3295 statt 0'3295
" " " " " " No. 4 " 40 " 40
Dana System 1892 " 70 Zeile 16 vu " 10°43 " 10°35
- Mizzonit** mit Wernerit vereinigt (Index 3. 130).

Monazit. Für die Winkeltabellen wurde die Aufstellung *Miller-Dana* der des Index vorgezogen. *E. S. Dana's* Elemente angenommen. Sie differiren wenig von dem Mittel der von *E. S. Dana* (System 1892, 752) zusammengestellten Werthe. Dies ist mit Einschluss von *Dana's* A.-V.

$$a : b : c = 0.9694 : 1 : 0.9241 \quad \beta = 103^{\circ}38.$$

Dana System 1892 Seite 750 Zeile 4 vo lies 124°04 statt 124°42

" " " " " 8 " " gg' " kk'

" " " " " 9 " " ag " ak

Monimolit. Regulär. *Flink* (Zeitschr. Kryst. 1888. 13. 403).

Monetit. Triklin. Elemente unvollständig. Messungen genähert. (*E. S. Dana*, Syst. 1892. 784.)

Mordenit. *Pirsson* (Amer. Journ. 1890. 40. 232) wählte die Elemente wegen Aehnlichkeit mit Heulandit. Doch werden die Symbole dabei complicirt. Auch deuten die chemischen Formeln nicht auf Isomorphie. Es wurden die den einfachsten Symbolen entsprechenden Elemente vorgezogen.

$$p q (\text{Pirsson}) \doteq \frac{p}{2} \frac{2q}{5} (\text{Gdt.}); p q (\text{Gdt.}) = 2 p \cdot \frac{5}{2} q (\text{Pirsson})$$

Mursinskit. Tetragonal. $a : c = 1 : 0.5664$ mit den Formen: $o = 1(111)$; $x = 20(201)$; $y = \frac{5}{3}0(503)$; $z = 5\frac{5}{2}(10.5.2)$; $s = 84(841)$. Das Mineral wurde nicht aufgefunden, weil die Zusammensetzung unbekannt.

Kokscharow Mat. Min. Russl. 1886. 9. 341. Zeitschr. Kryst. 1888. 13. 198.

Nadorit. Die Verhältnisse sind unklar. Die Messungen von *Descloizeaux* und *Cesaro* nicht in sicherer Uebereinstimmung; die Symbole complicirt. Ursache ist das ungünstige Material. Prüfung an besserem Material kann erst Klarheit geben.

Folgende Zusammenstellung des wahrscheinlich Identischen möge zur Orientierung dienen.

Index	<i>E. S. Dana</i>	<i>Descl.</i>	<i>Cesaro</i>	<i>E. S. Dana</i> <i>Cesaro</i>	Index	G ₂
o	a	h ¹	h ¹	∞0	o	o∞
a	b	p	—	0∞	∞0	∞0
δ	δ	h ^{8/3}	—	1/3 0	0 5/11	0 1/3
ε	ε	h ⁶	—	2/3 0	0 5/7	0 7/3
ζ	ζ	h ¹⁷	—	1/8 0	0 8/9	} 02
—	d	—	a ^{1/2}	20	0 8/9	
e	e	m	a ^{3/5}	5/3 0	01	0 5/3
η	η	g ⁴	a ¹	10	0 5/3	01
θ	θ	g ^{3/2}	—	1/3 0	05	0 1/3
p	π	a ^{1/2}	h ⁷	4/3 ∞	1/2 0	∞2
q	q	a ¹	g ⁵	∞ 3/2	10	∞
r	r	a ²	g ²	∞ 3	20	2∞
s	p	—	b ^{1/2}	1	4/13 7/13	2/3 1
x	—	x	x	37/12 17/12	—	? 13
y	—	y	y	17/4 5/4	4/19 7/19	? 1 9/2

Der Druckfehler $a\frac{8}{5}$ statt $a\frac{8}{3}$ bei *Cesaro* (Bull. soc. franc. 1888. 11. 48) ist in *E. S. Dana's* Syst. 863 übergegangen. Dort ist zu lesen ζ (15° 08) statt (508). *Descloizeaux* h^{17} und *Cesaro's* $a\frac{1}{2}$ sind wahrscheinlich identisch. Gemessen $h^1 h^{17} (Dx) = 21^\circ 9'$; $a\frac{1}{2} h^1 = 19^\circ$ circa (*Cesaro*).

Die Symbole G_2 erscheinen als die einfachsten. Die in der Winkeltabelle angenommenen Elemente sind in ungefährer Uebereinstimmung mit Messung und Symbolen.

Dana Syst. 1892 S. 683 Zeile 12 vo bis (15° 08, $\frac{1}{8}\bar{5} - \bar{1}$) statt (508, $\frac{5}{8} - \bar{1}$)

Natrolith. Für die Winkeltabellen wurde die Aufstellung *Mohs* der des Index vorgezogen. Für die Elemente wurde das Mittel aus den Elementen von *Haidinger*, *Lang*, *Seligmann*, *Brögger*, *Palla*, *Artini* in Rechnung gestellt.

Dana Syst. 1892 Seite 600 Zeile 6 vo lies yy' statt gg'

Natrophilit. Steht dem Triphylin nahe. Elemente und Symbole nicht genügend gesichert.

Brush und *Dana* Am. J. 1890. 39. 205. *E. S. Dana* Syst. 1892. 758.

Nephelein. Wegen Wichtigkeit von $i x$ ist *Haidinger's* Aufstellung mit $a : c = 1 : 0.8390$, $p_0 = 0.9672$ vorzuziehen.

Neptunit. *Flink* Zeitschr. Kryst. 1894. 23. Seite 346 Zeile 15 vu lies $\{\bar{5}12\}$ statt $\{512\}$

Newberyit. Für die Winkeltabelle wurde die Aufstellung *Rath* der des Index vorgezogen.

Nickelvitriol. *Dana*, Syst. 1892 Seite 94 Zeile 13 vo lies $40^\circ 40\frac{1}{2}$ statt $41^\circ 40\frac{1}{2}$

Ochrolith. *Flink*, Stockh. Ofvers. Ak. 1890. 46. 5. Zeitschr. Kryst. 1891. 19. 96.

Dana Syst. 1892. 864.

Olivenit. Für die Winkeltabelle wurde die Aufstellung *Mohs* der des Index vorgezogen. Die Elemente von *Washington* (Amer. Journ. 1888. 35. 298) sind wohl genauer als die von *Phillips* (Min. 1823. 319). Doch mussten bei *Washington*, um die Elemente zu completiren, Krystalle von zwei Fundorten zusammengefasst werden. Um die bestehende Unsicherheit möglichst zu reduciren, wurde das Mittel von *Phillips* und *Washington* in Rechnung gestellt.

Gdt. Index Bd. 2 Seite 429 Zeile 7 vo lies: $0.9396 : 1 : 0.6726$ statt $0.9573 : 1 : 0.6894$.

Olivingruppe. Es wurden für die verschiedenen Arten die Winkel ausgerechnet für alle in der Gruppe bekannten Formen. Die Buchstaben solcher Formen, die bei der speciellen Art nicht beobachtet sind, wurden in () gesetzt. Für die Winkeltabellen wurde die Aufstellung *Rose* der des Index vorgezogen.

Gdt. Index Bd. 2 Seite 324 Zeile 1 vu lies: Tephroit statt Tephorit.

Oryzit. *Grattarola* Proc. verb. soc. Tosc. Mai 1890. Zeitschr. Kryst. 1894. 23. 171.

Monoklin. $a : b : c = 0.3705 : 1 : 0.1998$ $\beta = 95^\circ 22$. Die Messungen schwanken von $2 - 3.5^\circ$. Daher die Elemente unsicher. Es wurde desshalb von Berechnung der Winkel abgesehen.

Pachnolith. Für die Winkeltabellen wurde die Aufstellung *Groth* der des Index vorgezogen.

Palladium. *Gdt.* Index Bd. 2 Seite 445 No. 2 lies: O statt ∞ O

Parisit. Es lässt sich nicht mit Sicherheit sagen, ob die Aufstellung des Index oder die von *Descloizeaux* (*Vrta. E. S. Dana*) den Vorzug verdient oder eine solche, die *Descloizeaux's* Symbole verdoppelt. Neu gefundene Formen können Aufschluss geben. Bis dahin wurde die Aufstellung des Index beibehalten.

Partschin. *Gdt.* Index Bd. 2 Seite 449 Elemente lies: 001416 statt 011416.

Pearceit. *Penfield* Amer. Journ. 1896. 2. 17. Zeitschr. Kryst. 1897. 27. 65.

Pektolith. Für die Winkeltabelle wurde die Aufstellung *E. S. Dana* der des Index vorgezogen. Dazu wurden die Elemente von *E. S. Dana* eingeführt. (Syst. 1892. 373.)

Penfieldit. Zur Vereinfachung der Symbole wurde für *Penfield's* $\frac{1}{2}(11\bar{2}1)10(10\bar{1}1)$ gesetzt.

$$\begin{aligned} \text{Transformation } pq(\text{Penfield}) &\doteq \frac{2}{3}(p+2q) \cdot \frac{2}{3}(p-q)(G_1) \\ pq(G_1) &\doteq \frac{1}{2}(p+2q) \cdot \frac{1}{2}(p-q)(\text{Penfield}) \end{aligned}$$

Petalit. Für die Winkeltabelle wurden die Axen AC resp. PR des Index vertauscht. Für diese Aufstellung G_2 gilt die *Transformation*:

$$pq(\text{Index}) \doteq \frac{1}{p} \frac{q}{p}(G_2); \quad pq(\text{Descloiz. Dana}) \doteq \frac{p}{2} \frac{q}{2}(G_2)$$

Phenakit. *Gdt.* Index Bd. 2 Seite 463 No. 1 lies a statt q.

Phillipsit. Für die Winkeltabelle wurde die Aufstellung *Fresenius* der des Index vorgezogen. Für die Elemente wurde das Mittel der Angaben von *Fresenius*, *Streng* und *Descloizeaux* eingeführt.

Phosgenit. Elemente nach *Gdt.* (Zeitschr. Kryst. 1894. 23. 147)

<i>Gdt.</i> Index Bd. 2	Seite 471	zuzufügen:	v	311	31
" " " "	" "	" "	L	310	3 ∞
" " " "	472	" "	<i>Rath</i>	Niederrh. Ges. 1887. 102,	Zeitschr.
				Kryst. 1890. 17.	105
" Zeitschr. Kryst. 23	" 139	Zeile 7	vo	lies Ferraris	statt Ferrario
" " " "	" " "	" 3	vu	" lg p _o	" tg p _o
" " " "	" 147	" 22	" "	73 12	" 71 40
" " " "	" 141	" 1	" "	1 _S 2 _S	" s ¹ s ²
" " " "	" " "	" " "	" "	3 _S 4 _S	" s ³ s ⁴
" " " "	" 147	" 2 u. 1	" "	No. 12. 13. 14 Fig. 9. 10. 11	statt
				No. 11. 12. 13 Fig. 8. 9. 10	
" " " "	" " "	" 20	" "	sechs	statt sieben
" " " "	" " "	" 18	" "	f = $\frac{2}{3}$ o { 203 }	zu löschen.

Phosphosiderit. Für die Winkeltabellen wurde die Aufstellung *Bruhns u. Busz* der des Index vorgezogen.

Piedmontit. *Dana* System 1892 Seite 521 Zeile 23 vo lies cn statt cx.

Pikromerit. Für die Winkeltabelle wurde die Aufstellung von *Rotter u. Murmann* der des Index vorgezogen. Für die Elemente wurde das Mittel aus den Angaben von *Scacchi* (*E. S. Dana* System 1892. 948), *Rotter u. Murmann* und *Brooke* eingeführt.

Dana System 1892 Seite 948 Zeile 4 vu fig. und Fig. ist n zugleich für 120 und 111 gesetzt. Es ist entspr. Index für 111 überall u zu setzen.

Pisanit. $\Delta = -\frac{5}{22}(5'5'22)$ und $\sigma = -\frac{9}{8}(998)$ sind vermuthlich Vicinale. Sie wurden aus der Winkeltabelle weggelassen.

Gdt. Index Bd. 2 Seite 477 No. 3 lies 110 ∞ statt 100 ∞ o.

Plattnerit. Durch Versehen wurde dieses Mineral ausgelassen. Es ist S. 269 zuzufügen.

Ayres Dana E. S. Syst. 1892. 240

„ *Amer. J.* 1892. 43. 407. *Z. K.* 1894. 23. 522.

Plattnerit.

Tetragonal.

$\left. \begin{matrix} c \\ p_o \end{matrix} \right\} = 0.6764$	$lg\ c = 983020$	$lg\ a_o = 016980$	$a_o = 1.4784$
---	------------------	--------------------	----------------

No.	Buchstaben	Symb.	Miller	φ	ρ	ξ_o	η_o	ξ	η	x (Prismen) (x : y)	y	d = tge
1	c	o	001	—	0°00	0°00	0°00	0°00	0°00	o	o	o
2	a	o ∞	010	0°00	90 00	"	90 00	"	90 00	"	∞	∞
3	e	01	011	"	34 04'	"	34 04'	"	34 04'	"	0.6764	0.6764
4	v	03	031	"	63 46'	"	63 46'	"	63 46'	"	2.0292	2.0292
5	x	$\frac{3}{2}$	332	45 00	55 07'	45 25	45 25	35 27'	35 27'	1.0146	1.0146	1.4349

Polybasit. Aufstellung und Elemente wurden nach *Penfield* (*Amer. J.* 1896. 2. 23) angenommen, der wegen Isomorphie mit *Pearceit Miers'* pq vertauschte. Der Fehler in *Miers'* Elementen, der in den Index des Verf. übergang, wurde durch *E. S. Dana* (*Syst.* 1892. 146) berichtigt. *Penfield* hält den Polybasit für monoklin. Im Sinn des monoklinen Systems sind die Vorzeichen \pm der Tabellen zu verstehen.

Gdt. Index Bd. 2 Seite 487 Zeile 4 vo lies 1.7262 statt 2.7210

„ „ „ „ „ „ „ 5 „ „ 0.9131 „ 0.3675

„ „ „ „ „ „ Elemente lies:

$a = 1.5763$	$lg\ a = 019764$	$lg\ a_o = 996055$	$lg\ p_o = 003945$	$a_o = 0.9132$	$p_o = 1.0952$
$c = 1.7262$	$lg\ c = 023709$	$lg\ b_o = 976291$	$lg\ q_o = 023709$	$b_o = 0.5793$	$q_o = 1.7262$

Gdt. Index Bd. 2 Seite 488 zuzufügen: Die folgenden Corr. bestätigt durch *Miers* (Brief v. 13. Aug. 95.)

„ „ „ „ „ „ „	<i>Miers</i> Min. Mag. 1889. 8. 204 Zeile 2 vu	} lies
„ „ „ „ „ „ „	„ <i>Ztsch.</i> Kr. 1891. 19. 413 „ 3 „	
„ „ „ „ „ „ „	1.5762 statt 0.6344	
„ „ „ „ „ „ „	„ <i>Min. Mag.</i> 1889. 8. 204 „ 1 „	} lies
„ „ „ „ „ „ „	32°23½ statt 57°36½.	

Polykras. Für die Winkeltabelle wurde die Aufstellung *Brögger* der des Index vorgezogen.

Polymignyt. Für die Winkeltabelle wurde die Aufstellung *Rose* der des Index vorgezogen.

Powellit. *Melville* Am. J. 1891. 41. 138. *Dana* System 1892. 989.

Prehnit. Für die Winkeltabellen wurde die Aufstellung *Mohs* der des Index vorgezogen.
Für die Elemente wurde das Mittel der Angaben von *Naumann, Streng, Beutell* eingeführt.
Gdt. Index Bd. 2 Seite 493 Zeile 6 vo lies 1'1099 statt 1'099.

Prismatin ist nach *Ussing* = **Kornerupin** (*Dana* System 1892. 561). Für die Winkeltabelle wurde die Aufstellung *Sauer* der des Index vorgezogen.

Prosopit. Statt der im Index angenommenen Elemente wurden die von *E. S. Dana* (Syst. 1892. 178) aus *Descloizeaux's* Winkeln neu berechneten eingestellt.
Gdt. Index Bd. 2 Seite 497 Zeile 4 vo zuzufügen: $\beta = 93^{\circ}58$.

Pseudobrookit. Für die Winkeltabellen wurde *E. S. Dana's* Aufstellung (Syst. 1892. 232) der des Index vorgezogen. Die Elemente von *A. Schmidt* (Z. K. 1882. 6. 100) und *Traube* (Z. K. 1892. 20. 327) differiren bedeutend. Es wurde das Mittel aus beiden in Rechnung gestellt. *Traube's* $0 = 1\frac{2}{3}$ uns. Aufst. wurde als unsicher weggelassen.

Pucherit. Für die Winkeltabelle wurde eine Aufstellung G_2 der des Index vorgezogen, welche gleich der *Frenzel's* ist, jedoch pq verdoppelt.

$$pq (\text{Frenzel}) = 2p \cdot 2q (G_2) \quad pq (\text{Index}) = \frac{p}{2q} \frac{1}{q} (G_2)$$

Pyrit. Die Vorzeichen \pm wurden als unsicher und für die Winkeltabelle unwichtig weggelassen. Vgl. Index 2. 506.

Gdt. Index Bd. 2 Seite 505 No. 62 lies $\frac{9}{2} 2$ statt $\frac{9}{4} 2$.

Pyroxen-Gruppe

Enstatit. Bronzit. Hypersthen. Für die Winkeltabelle wurde die Aufstellung *Groth* der des Index vorgezogen.

Gdt. Index Bd. 2 Seite 517 Zeile 9 vo lies 1.2013 statt 0'6006

" " " 2 " " Transformation: *Blaas* in Col. *Lang* statt in Col. *Groth* zu stellen.

Blaas Min. Petr. Mitth. 3 Seite 481 Zeile 2 vo } lies: 1'1574 statt 0'5787

" Zeitschr. Kryst. 7 " 96 " 2 " } " " " " " " " " " 1'2013 " 0'6007

Panbianco fand (*Rivista* 1891. 8. 72), dass bei *Blaas* Elemente und Symbole nicht zusammengehören. Die Beibehaltung der Symbole erfordert obige Correcturen.

Diopsid. Für die Winkeltabelle wurde die Aufstellung *Naumann* der des Index vorgezogen.
Für die Elemente wurde das Mittel aus den neun ersten Axenverhältniss-Angaben des Index eingesetzt.

Gdt. Index Bd. 2 Seite 525 No. 28 lies: V statt U.

Wollastonit. Für die Winkeltabelle wurde die Aufstellung *Rath-Hessenberg* der des Index vorgezogen. Dazu wurden die Elemente nach *Rath* eingeführt.

Gdt. Index Bd. 2 Seite 536 zuzufügen:

Rath Pogg. Ann. 1869. 138 Zeile 17 vu lies $0\frac{2}{5}$ statt $0\frac{3}{5}$
" " " " " " 16 " " $0\frac{3}{5}$ " $0\frac{2}{5}$

<i>Identification</i>	b	m	p	q	r	s	t	u	v	w
<i>Linck</i> : 0∞	∞	$\infty\frac{2}{3}$	01	$0\frac{1}{10}$	$0\frac{2}{5}$	$0\frac{2}{4}$	$0\frac{1}{8}$	$0\frac{2}{8}$	$0\frac{2}{2}$	$0\frac{2}{2}$
transformirt: 0∞	$0\frac{2}{3}$	01	$\frac{2}{3}\infty$	$\frac{5}{33}\infty$	$\frac{2}{2}\infty$	$\frac{2}{2}\infty$	$\frac{2}{2}\infty$	$\frac{2}{8}\infty$	$\frac{2}{2}\infty$	$\frac{2}{2}\infty$
abgeglichen <i>Gdt.</i> : 0∞	$0\frac{2}{3}$	01	$\frac{2}{3}\infty$	$\frac{2}{2}\infty$	$\frac{2}{2}\infty$	$\frac{2}{2}\infty$	$\frac{2}{2}\infty$	$\frac{2}{7}\infty$	$\frac{2}{3}\infty$	$\frac{2}{2}\infty$

s t sind wohl als vicinale Vertreter von ∞ anzusehen.

	gem.	ber.		gem.	ber.
bm	68° 55	68° 54		bs	57° 22
bp	57° 15	57° 15		bt	55° 12
				bu	53° 24
bq	68° 35	68° 38		bv	48° 15
br	66° 39	66° 31		bw	45° 32
					56° 54
					53° 19
					49° 00
					45° 38

In den Elementen *Gdt.* tritt eine interessante Beziehung zum Blödit hervor, der, abgesehen vom Wassergehalt, analog zusammengesetzt ist:

Blödit: a:b:c=1:3494:1:0:6705 $\beta=100^\circ 38$ $p_0=0.4969$ $q_0=0.6590$ $\mu=79^\circ 22$
 Qenstedtit: a:b:c=0.6661:1:0:6573 $\beta=101^\circ 53$ $p_0=0.9869$ $q_0=0.6432$ $\mu=78^\circ 07$
 Die Aufstellung *Gdt.* wurde für die Winkeltabellen angenommen.

Gdt. Index Bd. 3 Seite 382 Zeile 3 vu lies: $0\frac{1}{8}$ statt $0\frac{1}{8}$
 " " " " " " " 2 " " $0.15.8$ " $0.11.8$

Realgar. Für die Winkeltabellen wurde die Aufstellung *Lévy* der des Index vorgezogen.

Gdt. Index Bd. 3 Seite 29 *Transformation* Col. *Lévy* lies: $-\frac{p+1}{2}q$ statt $-\frac{p+1}{2}p$
 " " " " " " No. 23 " x " ζ
Hackmann Z. Kr. " 608 Zeile 2 vu " μ " u

Reddingit. *Dana* System 1892 Seite 813 Zeile 11 vo lies $55^\circ 22'$ statt $57^\circ 22'$
 " " " " " " 12 " " cq " bq

Rinkit. Für die Winkeltabelle wurde die Aufstellung *Lorenzen* der des Index vorgezogen.
 Die Elemente sind abnorm. Es ist zu erwarten, dass weitere Beobachtungen andere Elemente bringen werden.

Rittingerit wurde mit **Xanthokon** vereinigt (vgl. *Miers* Zeitschr. Kryst. 1894. 22. 457).

Römerit. Für die Winkeltabellen wurden die Axen AC resp. PQ der Aufstellung *Linck* (*Zeitschr. Kryst.* 1889. 25. 22, *Dana E. S.* System 1892. 959) vertauscht.

<i>Identification</i>	o	0∞	$\infty 0$	∞	2∞	3∞	$\frac{1}{5}\infty$	4∞	$\infty\infty$	$0\frac{2}{3}$	01	$\frac{2}{3}0$	10
<i>E. S. Dana</i>	a	b	c	q	n	s	t	l	e	μ	m	y	x
<i>Linck</i>	a	b	c	q'	n	n'	t	t'	q	m	p	y	x
Index	c	t	b	a	s	m	—	—	n	—	p	—	e

Linck Zeitschr. Kryst. 15, Seite 23 Zeile 10 vu lies { 320 } statt { 320 }

Roselith. Für die Winkeltabelle wurden die Axen gegen Index vertauscht, so dass

$$pq (\text{Index}) = \frac{1}{q} \frac{p}{q} (G_2)$$

Gdt. Index Bd. 3 Seite 51 No. 7 lies ζ statt ξ
Dana System 1892 " 810 " " "

Die Formen a n N h χ γ ω λ l l' O sind nicht beobachtet; stehen nur in *Schrauf's* Winkeltabelle (*Min. Mitth.* 1874. 4. 148) gerechnet. Beobachtet sind dagegen: $p=(114)$ $II=(114)$ *Dana's* Aufstellung, die fehlen (*Schrauf* 145).

Rosenbuschit. Nach *Brögger's* (Z. K. 1890. 16. 339) Messungen haben *Brögger* und *E. S. Dana* (System 1892. 374) die Elemente etwas verschieden angenommen. Der Berechnung der Winkel wurde das Mittel zu Grund gelegt.

Rothbleierz. Für die Winkeltabellen wurde die Aufstellung *Dauber* der des Index vorgezogen. *Dana* System 1892 Seite 913 Zeile 21 vo lies g (841) statt q (841).

Rothgiltigerz. Für alle am Rothgiltigerz beobachteten Formen sind die Winkel sowohl für Proustit als für Pyrrargyrit ausgerechnet.

Gdt. Index Bd. 3 Seite 67 No. 123 lies $23^{\circ}8'31''18$ statt $23^{\circ}8'31''18$
Dana System 1892 " 132 Zeile 25 vo " $\Sigma(6^{\circ}7'13''20)$ " $\Sigma(6^{\circ}7'13''10)$

Rothzinkerz. Die Elemente des Rothzinkerz schwanken in weiten Grenzen:

a : c = 1 : 1'6034 (*Rammelsb.*) 1 : 1'6208 (*Rath, D.:na J. D.*) 1 : 1'6519 (*Lévy*)
 1 : 1'6028 (*Grein*) 1 : 1'6219 (*Rinne, E. S. Dana*) 1 : 1'6683 (*Traube*)
 1 : 1'6077 (*Traube*) 1 : 1'6402 (*Traube*)

1 : 1'6077 kommt nach *Traube* dem reinen ZnO zu. Es wurde deshalb den Winkeln untergelegt.

Rutil. *Gdt.* Index Bd. 3 Seite 81 No. 27 lies $1\frac{8}{9}$ statt $1\frac{8}{9}$
 " " " " " 80 zuzufügen: *Lévy* Descr. 1837. 3. 338.

Samarskit. Für die Winkeltabellen wurde *E. S. Dana's* Aufstellung der des Index vorgezogen.

Sarkinit. Die Elemente wurden von *E. S. Dana* (System 1892. 779) genommen.

Sartorit. *Dana* System 1892 Seite 112. Als unsicher sind anzusehen: $\alpha \beta \gamma \varepsilon \eta \zeta \xi \lambda \theta$, vielleicht auch ω , vgl. Index 3. 132.

Schröckingerit. *Dana* Syst. 1892 Seite 308 Zeile 5 vu lies Schröckingerite statt Schröckingerit
 " " " " 1128 Register " " " Schröckingerite.

Schwefel. *Gdt.* Index Bd. 3 S. 105 No. 7 die ganze Zeile zu löschen vgl. *Busz* Z. K. 1892. 20. 564
Dana Syst. 1892 " 8 Zeile 5 vu h(130,i-3) zu löschen " " " " " "
 " " " " 9 " 4 vo $dd' = 60^{\circ}40\frac{1}{2}$ entspricht dem nicht angeführten, wohl auch nicht bekannten $\frac{1}{4}0(104)$.

Sellait. *Dana* System 1892 Seite 164 Buchstabe β kommt zweimal vor.

Silberkies. Für die Winkeltabellen wurde QR resp. BC gegen die Aufstellung des Index vertauscht. Für diese Aufstellung G_2 gilt die *Transformation*:

$$pq(\text{Index}) = \frac{p}{q} \frac{r}{q} (G_2) \quad pq(\text{Schrauf}) = \frac{p}{2} \frac{q}{2} (G_2)$$

Sillmanit. Für die Winkeltabellen wurde *Phillips* Aufstellung der des Index vorgezogen.

Sipyilit. *Mallet* giebt für die Pyramide zwei Winkel: PP Basiskante = 53° ; PP Polkante = $79\frac{1}{4}$. Aus ersterem wurde das Element $p_0 = 1'42$ (Index 3. 127) berechnet, aus letzterem $p_0 = 1'48$ (*Dana E. S. Syst.* 1892. 731). Das Mittel aus beiden wurde in Rechnung gestellt.

Skleroklas. Für die Winkeltabellen wurden die Axen PR resp. AC gegen die Aufstellung des Index vertauscht.

Gdt. Index Bd. 3 Seite 131 zuzufügen: s d 065 $\frac{2}{3}$ P ∞ 0 $\frac{2}{3}$.

Skolezit. Für die Winkeltabelle wurde die Aufstellung *Rose* der des Index vorgezogen.

Die Messungen am besten Material sind die von *Zepharovich* (Z. K. 1884. 8. 588) und *Flink* (Z. K. 1889. 15. 93). Die Elemente beider differiren wenig. Für die Winkelberechnung wurde das Mittel aus beiden eingeführt.

Skorodit. Für die Winkeltabellen wurde die Aufstellung *Mohs* der des Index vorgezogen.

Die Elemente schwanken bei den verschiedenen Beobachtern bedeutend. Es wurde das Mittel aus den Angaben von *Rath*, *Miller*, *Ferenejew*, *Buss* in Rechnung gebracht.

Spangolith. Zur Vereinfachung der Elemente wurde *Penfield's* $p = 10$ gesetzt.

$$\begin{aligned} \text{Transformation: } pq \text{ (Penfield)} &\doteq \frac{2}{3}(p + 2q) \cdot \frac{2}{3}(p - q) (G_1) \\ pq (G_1) &\doteq \frac{1}{2}(p + 2q) \cdot \frac{1}{2}(p - q) \text{ (Penfield)} \end{aligned}$$

Spodiosit. *Nordenskjöld G.* Geol. För. Förh. 1893. 15. 460. Zeitschr. Kryst. 1895. 25. 422.

Stercorit. Für die Winkeltabelle wurde die Aufstellung *Mitscherlich* der des Index vorgezogen.

Sternbergit. Für die Winkeltabelle wurde die Aufstellung *Haidinger* der des Index vorgezogen.

Dana Syst. 1892 Seite 57 Zeile 18 vo lies: (106, $\frac{1}{5} - \epsilon$) statt (301, 301)

" " " " " " 21 " " 26° 58 " 153° 55

NB. Winkel von *Miller* entnommen, dort von *Haidinger* falsch abgeschrieben. Vergl. Index 3. 156.

Stolzit. Das Element $p_0 = c = 1.5606$ und die neuen Formen $\epsilon = 0.2$, $h = 0.2$, $\eta = 0.2$, $o = 0.2$, $\tau = 0.2$, $\omega = 0.2$, $\Omega = 0.2$, $\pi = \frac{1}{3}1$, $A = 15$ nach Messungen von *C. Hlawatsch* an gutem Material von Broken Hill, Australien. Die Elementbestimmung ist der von *Lévy* (*Pogg. Ann.* 1826. 8. 513) und *Kerndt* (*Erdm. Journ.* 1847. 42. 113) vorzuziehen, die neuen Formen sind sicher.

Gdt. Index Bd. 3 Seite 157 No. 4 EA $\frac{1}{2}$ P + 2 in No. 6 zu schieben.

" " " " " " zuzufügen: s — 311 3P3 — — — 31

" " " " " " " ?B — 432 2P $\frac{3}{2}$ — — — 2 $\frac{3}{2}$

" " " " " " 158 " *Naumann* *Pogg. Ann.* 1835. 34. 376.

Dana Syst. 1892 " 989 Zeile 11 vu zuzufügen: *Lévy* *Pogg. Ann.* 1826. 8. 513.

Fig. 2 stammt nicht von *Descloiseaux*, sondern von *Lévy* (Taf. 2 Fig. 8).

Strengit. Für die Winkeltabellen wurde die Aufstellung *Nies* der des Index vorgezogen.

Dana Syst. 1892 Seite 822 Zeile 20 vu lies: 50° 59 statt 50° 49.

Stromeyerit. Für die Winkeltabellen wurde die Aufstellung *Miller* der des Index vorgezogen.

Gdt. Index Bd. 3 Seite 161 zuzufügen: e d 014 $\frac{1}{4}$ P ∞ — — 0 $\frac{1}{4}$

" " " " " " " p P 212 P $\frac{1}{2}$ — — 1 $\frac{1}{2}$

Strontianit. Für die Winkeltabellen wurde die Aufstellung *Mohs* der des Index vorgezogen.

$\psi = 40.40$, $\omega = 12.12$ wurden weggelassen, da sie *Laspeyres* (*Zeitschr. Kryst.* 1877. 1. 305) als unsicher bezeichnet. Auch $\eta = 0.24$ ist unsicher. Der von *Laspeyres* gemessene Winkel $\eta \delta = 61.40$ führt auf 0.29.

Struvit. Für die Winkeltabelle wurde die Aufstellung *Miller* der des Index vorgezogen.

$\mu\beta$ in *E. S. Dana's* System sind von *Solly* genommen (Min. Mag. 1889. 8. 279). Dieser hat sie von *Naumann*. Sie sind unsicher.

Sundtit. *Brögger* Zeitschr. Kryst. 1893. 21. 193.

Symplesit. *Dana* Syst. 1892 Seite 816 Zeile 28 vo lies: $33^{\circ}30$ statt $33^{\circ}2\frac{1}{2}$.
 " " " " " " " " " $33^{\circ}03$ " $33^{\circ}29\frac{1}{2}$
 " " " " " " " 27 vu " b r " c r

Synadelphit. Rhombisch nach *Hamberg* Zeitschr. Kryst. 1891. 19. 104.

Syngénit. Für die Winkeltabelle wurde die Aufstellung *Zepharovich* der des Index vorgezogen.

Gdt. Index Bd. 3 Seite 179 *Transformation* lies: Rumpf statt Rumpff.

Tapiolit. *Gdt.* Index Bd. 3 Seite 187 zuzufügen: m 110 ∞ P ∞
Dana Syst. 1892 " 738 " c (001, O) *Nordenskjöld*

Tellurit. Für die Winkeltabelle wurden die Axen PR resp. AC gegen den Index vertauscht.

Thenardit. *Dana* Syst. 1892 Zeile 6 vu t ($106, \frac{1}{6} - \epsilon$) ist unsicher nach *Ayres* eigener Angabe.

Thermonatrit. *Mohs-Haidinger's* prismatisches Natronsalz wurde weggelassen, da seine chemische Natur nicht feststeht.

Gdt. Index Bd. 3 Seite 387 lies: $p_0 = 0.9782$ statt $p_0 = 1.0223$.

Thomsonit. *Dana* Syst. 1892 Seite 607 Zeile 12 vo lies: $45^{\circ}23$ statt $44^{\circ}37$.

Titaneisen. *Gdt.* Index Bd. 3 Seite 211 No. 10 lies: 311 statt 311 (Corr. *Artini*. Giorn. Min. 1891. 2. 180).

Titanit. *Palache* (Zeitschr. Kryst. 1895. 24. 591) giebt die neuen Formen: N = $+\frac{1}{2}\frac{5}{2}$ (152); h = $+\frac{1}{3}\frac{7}{3}$ (173); H = $+\frac{1}{8}\frac{17}{8}$ (1.17.8); F = $+\frac{7}{9}\frac{5}{3}$ (7.15.9) unserer Aufstellung.

Topas. *Cesaro's* einzelne Fläche (Zeitschr. Kryst. 1892. 20. 274) $\frac{7}{16}$ dürfte als Vicinale anzusehen sein.

Trippkeit. *Dana* Syst. 1892 Seite 865 Zeile 6 vo lies: $\gamma\gamma'$ statt $\gamma\gamma'$
 " " " " " wahrscheinlich $z = 514$ (Index 3. 240)

Triplöidit. Für die Winkeltabellen wurde die Aufstellung *Brush u. Dana* der des Index vorgezogen.

Trögerit. Elemente und Symbole unsicher.

Trona. *Dana* Syst. 1892 Seite 303 β (1.0.18); γ (2.0.13) sind unsichere Formen. (*Zepharovich.*)

Turmalin. *Dana* Syst. 1892 Seite 551 Zeile 33 vo lies: Ψ (0.19.19.5, $-\frac{1}{4}\frac{9}{4}$) statt (0.15.15.4, $-\frac{1}{4}\frac{5}{4}$)
 " " " " " 6 vu " β (0.22.22.5 $-\frac{2}{5}\frac{2}{5}$) " β (0992, $-\frac{9}{2}$)
 " " " " 552 " 5 vo " c $\Psi = 63^{\circ}1'$ " c $\Psi = 62^{\circ}43'$
 " " " " " 6 " " c $\beta = 66^{\circ}16$ " c $\beta = 66^{\circ}44$

Tungstit. *Nordenskjöld.* Pogg. Ann. 1861. 114. 623. *Dana Syst.* 1892. 202. *Nordenskjöld's* Symbole vereinfachen sich durch die *Transformation*:

$$p q (\text{Nsk.}) \div \frac{1}{4} p \cdot \frac{1}{4} q (\text{Gdt.}); \quad p q (\text{Gdt.}) \div 4 p \cdot 4 q (\text{Nsk.})$$

Diese *Transformation* wurde für die Winkeltabelle angenommen. Es zeigt sich dabei eine Aehnlichkeit mit Bismit und Valentinit:

Valentinit	a : b : c = 0.785 : 1 : 1.414;	$p_0 = 1.801$	$q_0 = 1.414$
Bismit	" = 0.817 : 1 : 1.597;	$p_0 = 1.956$	$q_0 = 1.597$
Tungstit	" = 0.697 : 1 : 1.610;	$p_0 = 2.319$	$q_0 = 1.610$

Ullmannit. *Lapeyres* Zeitschr. Kryst. 1891. 19. 424 giebt die neuen Formen $+\frac{5}{6}0(507)$, $-\frac{1}{3}0(013)$, $\frac{2}{3}(223)$, $-\frac{1}{6}\frac{1}{3}(126)$.

Uranocircit. Formen und Winkel ähnlich Autunit. Nicht genau bestimmt.

Uranothallit. Die Index 3. 255 angenommenen Elemente und Symbole entsprechen einem Brief von *Brezina* (vgl. Index S. 256). In der Publikation (Ann. Wien. Mus. 1890. 5. 495) sind a c vertauscht. Für die Winkeltabelle sind die Elemente von *Brezina's* Publikation angenommen.

Zeitschr. Kryst. 1894. 23, Seite 628 Register lies 166 statt 167.

Valentinit. Ueber die Unsicherheit der Elemente und Symbole und dadurch der Winkel vgl. Index 3. 264.

Dana Syst. 1892 Seite 199 die unsicheren Formen $\sigma \rho \xi i g f h d v u x (Q?)$ zu löschen.

Vauquelinit. Für die Winkeltabelle wurden die Axen AC resp. PR gegen die Aufstellung des Index vertauscht.

Gdt. Index Bd. 3 Seite 269 No. 8 bis 14 die Vorzeichen \pm vertauschen.

Dana System 1892 " 915. Das Axenverhältniss a : b : c = 0.7459 : 1 : 1.4028 $\beta = 110^\circ 10'$ ist wohl vorzuziehen, da sich *Kokscharow* dafür entscheidet (Mat. Min. Russl. 1882. 8. 377) der mit *Descloiseaux* das Mineral am genauesten studiert hat.

Veszelyit. Triklin, vielleicht monoklin? *Schrauf's* Elemente stimmen nicht genau mit den Winkeln, wie *Dana* (Syst. 1892. 841) hervorhebt.

Vivianit. *Dana Syst.* 1892 Seite 814 Zeile 4 vu lies $s(131, 3-3)$ statt $s(311, 3-3)$. Die Form ist von *Rath* genommen (Pogg. Ann. 1869. 136. 406). Dort steht 3P3 statt (3P3). Das geht aus den Zonen S.407 hervor. ($a' : \frac{1}{3}b : c$) daneben ist richtig.

" " " Seite 814 Zeile 3 vu lies $\psi(836, -\frac{4}{3} - \frac{5}{3})$ statt $\psi(836, \frac{4}{3} - \frac{5}{3})$ von *Descloiseaux* genommen. (Nouv. Rech. S. 695.) $x = (d^{\frac{1}{2}} d^{\frac{1}{2}} h^{\frac{1}{6}})$

Wagnerit-Kjerulfin. Für die Winkeltabellen wurden Wagnerit und Kjerulfin, die im Index getrennt gegeben sind, vereinigt. Beide in Aufstellung *Miller*.

Dana System 1892 Seite 776 Zeile 8 vo lies $cq = 83^\circ 14$ statt $cy = 83^\circ 14$.

Wavellit. Für die Winkeltabellen wurde die Aufstellung *Senff, Miller* der des Index vorgezogen.

Whewellit. Für die Winkeltabelle wurde die Aufstellung *Dana* der des Index vorgezogen.

Gdt. Index Bd. 3 Seite 293 No. 9 lies $110 \infty P - \infty$ statt $101 + P \infty - - 10$
 " " " " " " " " $10 \infty P 2 - 2 \infty$ " $201 + 2P \infty - - 20$

Willemit. Im Index wurden Willemit und Troostit getrennt, nach *Penfield* (Zeitschr. Kryst. 1894. 23. 77) wieder vereinigt.

Penfield Zeitschr. Kryst. 23 Seite 74 Zeile 10 vo lies $\frac{2}{3} P 2$ statt $\frac{3}{4} P 2$

Wismuthglanz. Für die Winkeltabelle wurde die Aufstellung von *Groth* der des Index vorgezogen.

Witherit. Für die Winkeltabellen wurde die Aufstellung *Mohs* der des Index vorgezogen.

Dana System 1892 Seite 284 zuzufügen: p C D o F G des Index.

Wöhlerit. Für die Winkeltabelle wurde die Aufstellung *Descloizeaux* der des Index vorgezogen.

Für die Elemente wurde das Mittel der Angaben von *Descloizeaux* und *Brögger* eingesetzt, die wenig differiren.

Wolframit. Für die Elemente wurde das Mittel der Angaben von *Descloizeaux*, *Krenner*, *Seligmann* genommen.

Wolfsbergit. Elemente und Symbole wurden nach brieflich mitgetheilten Untersuchungen von *Penfield* (Brief vom 5. April 1897) gegeben. Auf Grund von *Penfield's* Mittheilung wurde Guejarit mit Wolfsbergit vereinigt.

Die Angaben der anderen Beobachter wurden, soweit sie sich mit denen von *Penfield* nicht in Uebereinstimmung bringen liessen, bis zur Abklärung weggelassen. Zur Vereinfachung der Symbole wurde *Laspeyres-Penfield's* Aufstellung geändert.

$$\text{Transformation: } pq \text{ (Lasp.-Penf.)} \doteq \frac{2}{q} \frac{3p}{q} \text{ (Gdt.)}$$

Wulfenit. *Dana* Syst. 1892 Seite 990 *Koch's* ω z v ρ ψ sind unsicher und wohl am besten zu löschen (Index 3. 318 Bemerk.); ebenso ist $\varphi = 71.75$ zu löschen.

Gdt. Index Bd. 3 Seite 316 Zeile 5 vo *Naumann* . . . die ganze Zeile löschen. Das Citat bezieht sich auf *Stolzit*.

Xanthokon. Elemente und Symbole nach *Miers* (Zeitschr. Kryst. 1894. 22. 459). Das Krystallsystem ist nicht sicher, und die Winkel schwanken in weiten Grenzen.

Xenotim. *Gdt.* Index Bd. 3 Seite 223 zuzufügen: e 112 $\frac{1}{2}P$ $\frac{1}{2}$ 10

" " " " " " " c 001 oP o o

" " " " " " " f 111 P 1 20

Lasaulx Jahrb. Min. 1877. 175

Flink Stockh. Ak. H. 1886. 12. 41, Z. K. 1888. 13. 404

Hidden u. Washington Amer. J. 1888. 36. 380, Z. K. 1890. 17. 413

" " " Zeitschr. Kryst. 17, Seite 413 Zeile 12 vo lies {201} statt {210}

Yttrotantalit. Für die Winkeltabellen wurde die Aufstellung *Nordenskjöld* der des Index vorgezogen.

Yttrotitanit. Formen und Winkel wie beim Titanit.

Zinkosit. Elemente und Symbole nach *Schulten* (Compt. rend. 1888. 107. 405. *E. S. Dana* System 1892. 912).

Zinkvitriol. *Dana* System 1892 Seite 939 lies $s(211, 2 - \bar{2})$ statt $n(211, 2 - \bar{2})$. Buchst. n ist schon für 101 verwendet.

Zinnerz. *Dana* Syst. 1892 Seite 334. u u_1 u_2 u_3 sind unsicher (Index 3. 342).

Zinnober.	<i>Gdt.</i>	Index Bd. 3	Seite 348	Zeile 11	vu	lies	ersetzen	statt	setzen
	<i>Dana</i>	Syst. 1892	" 66	" 12	" "	" \mathfrak{h} ($0 \cdot 1 \cdot 1 \cdot 12, -\frac{1}{12}$)	" \mathfrak{h} ($1 \cdot 0 \cdot 1 \cdot 12, \frac{1}{12}$)	" \mathfrak{b}	($1017, \frac{1}{7}$)
	"	"	"	" 11	" "	" \mathfrak{d} ($0117, -\frac{1}{7}$)	" \mathfrak{d}	($1017, \frac{1}{7}$)	
	"	"	"	" 10	" "	" \mathfrak{e} ($0115, -\frac{1}{5}$)	" \mathfrak{e}	($1015, \frac{1}{5}$)	
	"	"	"	" 8	" "	" \mathfrak{f} ($0 \cdot 5 \cdot \bar{5} \cdot 14, -\frac{5}{14}$)	" \mathfrak{f}	($5 \cdot 0 \cdot \bar{5} \cdot 14, \frac{5}{14}$)	
	"	"	"	" 2	" "	" \mathfrak{i} ($0 \cdot 10 \cdot 10 \cdot 19, -\frac{19}{19}$)	" \mathfrak{i}	($10 \cdot 0 \cdot 10 \cdot 19, \frac{19}{19}$)	
	"	"	"	" 1	" "	" \mathfrak{w} ($05\bar{5}9, -\frac{9}{9}$)	" \mathfrak{w}	($50\bar{5}9, \frac{9}{9}$)	
	"	"	"	" 8	" "	" \mathfrak{x} ($05\bar{5}3, -\frac{3}{3}$)	" \mathfrak{x}	($50\bar{5}3, \frac{3}{3}$)	
	"	"	"	" 6	" "	" \mathfrak{m} ($0995, -\frac{9}{9}$)	" \mathfrak{m}	($9095, \frac{9}{9}$)	
	"	"	"	" 2	" "	" \mathfrak{n} ($07\bar{7}2, -\frac{2}{2}$)	" \mathfrak{n}	($70\bar{7}2, \frac{2}{2}$)	

Traube giebt diese Formen *Zeitschr. Kryst.* 1888. 14. Seite 565 ohne Berücksichtigung des Vorzeichens. Später im Text S. 567, 568, 569 negativ.

Zoisit. Für die Winkeltabellen wurde die Aufstellung *Descloizeaux* der des Index vorgezogen. *Dana* Syst. 1892 Seite 513 Zeile 26 vu lies *Becke* statt *Tschermak and Sipöcz*.

Synonyme.

Das Synonymen-Verzeichniss macht keinen Anspruch auf Vollständigkeit. Es soll nur dazu helfen, einige Mineralien in den Tabellen aufzufinden, die unter anderem Namen eingestellt sind, als der Leser erwartet.

<p>Aannerödīt = Annerödīt Achmit = Akmit (Pyroxengr.) Aciculit = Patrinit Adular = Orthoklas (Feldspath-Gruppe) Aegirin s. Akmit (Pyroxengr.) Aftalosa = Glaserit Aikinit = Patrinit Aimafibrit = Hämafibrit Aimatolith = Diadelphit Akmit s. Pyroxengruppe Aktinolith s. Amphibol Alabandin = Manganblende Alaunstein = Alunit Albin = Apophyllit Albit s. Feldspathgruppe Allanit = Orthit Alexandrit = Chrysoberyll Almandin s. Granat Amblystegit = Hypersthen (Pyroxen-Gruppe) Amethyst = Quarz Anomit s. Glimmergruppe Anorthit s. Feldspathgruppe Anthophyllit s. Amphibolgruppe Antimonblüthe = Valentinit Antimonnickel = Breithauptit Antimonnickelkies = Ullmannit Antimonsilberblende s. Rothgiltigerz Aphanesit = Abichit Aphantalit = Glaserit</p>	<p>Aplom s. Granat Arcanit = Glaserit Arfvedsonit s. Amphibol Argentit = Silberglanz Argentopyrit = Silberkies Arkansit = Brookit Arsenikalkies = Löllingit Arsennickel = Rothnickelkies Arsennickelglanz = Gersdorffit Arsenolith = Arsenit Arsenomelan = Skleroklas Arsenopyrit = Arsenkies Asmanit = Tridymit Astrakanit = Blödīt Augit s. Pyroxengruppe Automolit s. Spinell Autunit = Kalkuranit Azurit = Kupferlasur.</p> <p>Babingtonit s. Pyroxengruppe Bagrationit = Orthit Barytfeldspath = Hyalophan (Feldspath-Gruppe) Batrachit s. Monticellit (Olivingr.) Beraunit s. Eleonorit Bjelkit = Cosalith Binnit z. Th. s. Dufrenoyisit und Skleroklas Biotit s. Glimmergruppe Bismuth = Wismuth Bittersalz = Epsomit</p>
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Bitterspath = Dolomit
 Bismuthin = Wismuthglanz
 Blättererz } . . . = Nagyagit
 Blättertellur }
 Bleiantimonglanz . . = Zinckenit
 Bleichromat = Rothbleierz
 Bleiglätte = Bleioxyd
 Bleihornerz = Phosgenit
 Bleilasur = Linarit
 Bleimolybdat = Wulfenit
 Blende = Zinkblende
 Boltonit = Forsterit (Olivingr.)
 Bornit = Buntkupfererz
 Borsäure = Sassolin
 Brandtit s. Roselith
 Brevicit = Natrolith
 Brochantit s. Seite 394
 Bröggerit s. Uranpecherz
 Bromargyrit = Bromsilber
 Bromlit = Alstonit
 Bromyrit = Bromsilber
 Bronzit s. Pyroxengruppe
 Bucklandit = Orthit
 Bunsenin = Krennerit
 Bustamit = Rhodonit (Pyroxen-
 Gruppe).

C siehe auch **K**.

Calamin = Kieselzinkerz
 Callait = Variscit
 Cancrinit s. Mikrosommit
 Canfieldit = Argyrodit
 Caporcianit = Laumontit
 Cassiterit = Zinnerz
 Castor = Petalit
 Celestit = Cölestin
 Cerargyrit = Chlorsilber
 Cerin = Orthit
 Ceylanit s. Spinell
 Chalcantit = Kupfervitriol
 Chalcolith = Kupferuranit
 Chalcophyllit = Kupferglimmer
 Chalcopyrit = Kupferkies
 Chalcosin = Kupferglanz
 Chalcostibit = Wolfsbergit
 Chalybit = Eisenspath
 Chessylith = Kupferlasur
 Chiastolith = Andalusit
 Chilispeter = Natronsalpeter
 Chlorcalcium = Chlorocalcit
 Chlorblei = Cotunnit

Chlorbromsilber . . . = Embolit
 Chlorkalium = Sylvin
 Chlorquecksilber . . . = Kalomel
 Chondrodit s. Humitgruppe
 Christianit = Phillipsit
 Chromit = Chromeisenerz
 Chromspinell s. Spinell
 Chrysolith = Olivin
 Cinnabarit = Zinnober
 Clausthalit = Selenblei
 Cleavelandit = Albit (Feldspathgr.)
 Comptonit = Thomsonit
 Cossyrit s. Amphibol
 Couzeranit s. Skapolithgruppe
 Covellin = Kupferindig
 Crichtonit s. Titaneisenerz
 Cronstedtit s. Chloritgruppe
 Cuprit = Rothkupfererz
 Cymophan s. Chrysoberyll.

Danait = Glaukodot
 Davyn = Mikrosommit, Ne-
 phelin
 Dechenit s. Descloizit
 Diallag s. Pyroxengruppe
 Dialogit = Manganspath
 Dichroit = Cordierit
 Dihydrat s. Lunnit
 Diopsid s. Pyroxengruppe
 Dipyr s. Skapolithgruppe
 Discrasit = Antimonsilber
 Disthen = Cyanit
 Dufrenit = Kraurit
 Dufrenoysit = Binnit z. Th.
 Dyscrasit = Antimonsilber
 Dysluit s. Spinell.

Edisonit s. Rutil
 Ehlit s. Lunnit
 Eisenkies = Pyrit
 Eläolith = Nephelin
 Enstatit s. Pyroxengruppe
 Erennit = Monazit
 Erenit = Kupferglimmer
 Erythrin = Kobaltblüthe
 Eugenglanz = Polybasit
 Eukolit = Eudialyt.

Famatinit s. Enargit
 Faröelith = Thomsonit

Fassait s. Pyroxengruppe
 Fayalit s. Olivingruppe
 Ferberit s. Wolframit
 Feuerblende s. Xanthokon
 Fibrolit s. Sillimanit
 Ficinit = Hypersthen(Pyroxen-
 Gruppe)
 Fluorit = Flussspath
 Foresit = Desmin
 Försterit s. Olivingruppe
 Fowlerit s. Pyroxengruppe

Gahnit s. Spinell
 Galenit = Bleiglanz
 Galmei = Kieselzinkerz
 Gelbbleierz = Wulfenit
 Gibbsit = Hydrargillit
 Giobertit = Magnesit
 Glanzeisenerz = Eisenglanz
 Glaserz = Silberglanz
 Glaukophan s. Amphibolgruppe
 Gmelinit s. Chabasit
 Goslarit = Zinkvitriol
 Grammatit s. Amphibol
 Greenovit s. Titanit
 Grossular s. Granat
 Grothit s. Titanit
 Grünaut = Polydymit
 Grüneisenerz = Kraurit
 Guanajuarit = Selenwismuthglanz
 Guejarit = Wolfsbergit

Haarkies = Millerit
 Hämatit = Eisenglanz
 Hämatolith = Diadelphit
 Halit = Steinsalz
 Haytorit = Datolith
 Hedenbergit s. Pyroxengruppe
 Heintzit = Hintzeit
 Hemimorphit = Kieselzinkerz
 Hercynit s. Spinell
 Herschelit s. Chabasit
 Hessonit s. Granat
 Hiddenit = Spodumen
 Honigstein = Mellit
 Hornblei = Phosgenit
 Hornblende s. Amphibol
 Hornquecksilber = Kalomel
 Hornsilber = Chlorsilber
 Hortonolith s. Olivingruppe

Hübnerit s. Wolframit
 Hyalophan s. Feldspathgruppe
 Hyalosiderit s. Olivingruppe
 Hypersthen s. Pyroxengruppe

Jacobsit s. Spinell
 Ilmenit = Titaneisen
 Ilvait = Lievrit
 Jodyrit = Jodsilber
 Iolith = Cordierit
 Irit = Chromeisenerz
 Ixiolit = Tantalit.

K siehe auch C.

Kämmererit s. Chloritgruppe
 Kalamin = Kieselzinkerz
 Kalialaun = Alaun
 Kalkspath = Calcit
 Kallochrom = Rothbleierz
 Kalkharmotom = Phillipsit
 Kaluzit = Syngenit
 Kammkies = Markasit
 Kampylit = Mimetesit
 Karstenit = Anhydrit
 Kassiterit = Zinnerz
 Keilhaut = Ytrotitanit
 Kerargyrit = Chlorsilber
 Kermesit = Antimonblende
 Kjerulfin s. Wagnerit
 Kieselwismuth = Eulytin
 Kimito-Tantalit s. Tantalit
 Klaprothit (Beudant) = Lazulith
 Klinochlor s. Chloritgruppe
 Klinohumit s. Humitgruppe
 Klinoklas = Abichit
 Knebelit s. Olivingruppe
 Kobaltarsenkies = Glaukodot
 Kobaltglanz } = Glanzkobalt
 Kobaltin }
 Kobaltnickelkies = Linneit
 Kobaltvitriol = Bieberit
 Königin = Brochantit
 Köttigit s. Vivianit
 Kreitonit s. Spinell
 Kreuzstein = Phillipsit, Harmotom
 Krokoit = Rothbleierz
 Kupferantimonglanz = Wolfsbergit
 Kupfereisenvitriol = Pisanit
 Kupfernickel = Rothnickelkies
 Kupferwismuthglanz = Emplektit.

Lapislazuli } s. Nosean
Lasurstein }
Laxmannit = Vauquelinit
Lehmannit = Rothbleierz
Lepidolith } s. Glimmergruppe
Lepidomelan }
Levyn s. Chabasit
Linsenerz = Liroconit.

Magnesioferrit s. Spinell
Magnetit = Magneteisenerz
Magnetopyrit = Magnetkies
Magnoferrit s. Spinell
Malakon = Zirkon
Mangankies = Hauerit
Manganotantalit . . s. Tantalit
Marialith s. Skapolithgruppe
Massicot = Bleioxyd
Maxit = Leadhillit
Megabasit s. Wolframit
Meionit s. Skapolithgruppe
Melaconit = Tenorit
Melanit s. Granat
Melilith = Humboldttilith
Mengit = Monazit
Meroxen s. Glimmergruppe
Mesolith } s. Natrolith
Mesotyp }
Mirabilit = Glaubersalz
Mispickel = Arsenkies
Mizzonit s. Skapolithgruppe
Molybdänblei = Wulfenit
Molybdenit = Molybdänglanz
Montebrasit = Amblygonit
Monticellit s. Olivingruppe
Morenosit = Nickelvitriol
Morvenit = Harmotom
Mosandrit s. Johnstrupit
Muscowit s. Glimmergruppe
Musit; Mussit = Parisit.

Nadeleisenerz = Göthit
Nadelerz = Patrinit
Natocalcit = Gaylussit
Natron = Soda
Naumannit = Selensilber
Neochrysolith s. Olivingruppe
Niccolit } = Rothnickelkies
Nickelin }
Niobit = Columbit

Nitratin = Natronsalpeter
Noselith = Nosean.

Octaedrit = Anatas
Operment = Auripigment
Orangit s. Thorit
Orpiment = Auripigment
Orthoklas = Feldspathgruppe
Orcyt = Heulandit.

Pajsbergit s. Rhodonit (Pyroxen-
 Gruppe)
Paragonit s. Glimmergruppe
Pargasit s. Amphibol
Peganit = Variscit
Pegmatolith = Orthoklas(Feldspath-
 Gruppe)
Pektolith s. Pyroxengruppe
Pennin = s. Chloritgruppe
Peridot = Olivin
Periklin = Albit (Feldspathgr.)
Petzit = Hessit
Phakolith s. Chabasit
Phlogopit s. Glimmergruppe
Phosphochalcit } s. Lunnit
Phosphorkupfererz }
Phosphorsalz = Stercorit
Picotit s. Spinell
Piemontit = Manganepidot
Pistazit = Epidot
Plattnerit s. Seite 417
Pleonast s. Spinell
Pollux = Pollucit
Polyarsenit = Sarkinit
Proustite s. Rothgiltigerz
Pseudomalachit . . . s. Lunnit
Pyrargyrit s. Rothgiltigerz
Pyrolusit s. Manganit, Polianit
Pyrop s. Granat
Pyrostibit = Antimonblende
Pyrostilpnit = Feuerblende s. Xan-
 thokon
Pyrrhotin = Magnetkies.

Quecksilberhornerz . = Kalomel.

Radiolith s. Natrolith
Redruthit = Kupferglanz
Rhätizit = Cyanit
Rhodochrosit = Manganspath

- Rhodonit s. Pyroxengruppe
 Rhodotilit s. Inesit
 Richterit s. Amphibol
 Ripidolith s. Chloritgruppe
 Rittingerit s. Xanthokon
 Röpperit s. Olivingruppe
 Rösslerit s. Wapplerit
 Rothspiessglanzerz . s. Antimonblende
 Rubin = Korund
 Ryakolith = Orthoklas(Feldspath-Gruppe)
Sahlit = Diopsid (Pyroxengr.)
 Salpeter s. Kali-, Natron-Salpet.
 Sanidin = Orthoklas(Feldspath-Gruppe)
 Saphir = Korund
 Sartorit = Skleroklas
 Savit = Natrolith
 Saynit = Polydymit
 Scheelbleierz = Stolzit
 Scheelspath = Scheelit
 Schefferit s. Pyroxengruppe
 Schilfglaserz = Freieslebenit
 Schörl = Turmalin
 Schriftez = Sylvanit
 Schulzit = Geokronit
 Schwefelkies = Pyrit
 Schwerbleierz = Plattnerit (Seite 417)
 Schwerspath = Baryt
 Selenit = Gyps
 Selenquecksilber . . = Tiemannit
 Siderit = Eisenspath
 Sideroxen = Hessenbergit
 Silberhornerz = Chlorsilber
 Silberkupferglanz . = Stromeyerit
 Simonyit = Blödit
 Smaltin = Speisskobalt s. Chlo-anthit
 Smaragd = Beryll
 Smithsonit = Zinkspath
 Sommit s. Nephelin
 Spartialit = Rothzinkerz
 Spatheisenstein . . . = Eisenspath
 Specularit = Eisenglanz
 Speerkies = Markasit
 Speisskobalt = Smaltin s. Chlo-anthit
 Sphalerit = Zinkblende
 Sphen = Titanit
 Spiauterit = Wurtzit
 Sprödglasserz = Melanglanz
 Stannin = Zinnkies
 Steinmannit s. Bleiglanz
 Stephanit = Melanglanz
 Sterlingit s. Röpperit (Olivingr.)
 Stibnit = Antimonglanz
 Stilbit = Heulandit, Desmin
 Strahlerz = Abichit
 Strahlstein s. Amphibol
 Stützit = Tellursilberblende
 Susannit = Leadhillit
 Szaboit = Hypersthen(Pyroxen-Gruppe).
Tagilit s. Liroconit
 Talkhydrat = Brucit
 Talkspath = Magnesit
 Tamarit = Kupferglimmer
 Tankit = Anorthit (Feldspath-Gruppe)
 Tantalit s. Columbit
 Tellurblei = Altait
 Tellursilber } . . . = Hessit
 Tellursilberglanz }
 Tellurwismuth = Tetradymit
 Tennantit = Fahlerz
 Tephroit s. Olivingruppe
 Tesseralkies s. Skutterudit
 Tetartin = Albit (Feldspathgr.)
 Tetraedrit = Fahlerz
 Thulit s. Zoisit
 Tinkal = Borax
 Topazolith s. Granat
 Torbernit = Kupferuranit
 Tremolith s. Amphibol
 Triphan = Spodumen
 Troilit s. Magnetkies
 Troostit s. Willemit
 Tschermigit = Ammoniak-Alaun
 Tungstein = Scheelit
 Turnerit = Monazit
 Tyrit = Fergusonit
Urao = Trona
 Uraninit = Uranpecherz
 Uwarowit s. Granat
Vanadinbleierz = Vanadinit
 Vanadit s. Descloizit

Vesuvian	= Idokras	Wismuthkupfererz	= Wittichenit
Voglit	s. Uranothallit	Wollastonit	s. Pyroxengruppe
Warringtonit	s. Brochantit (Seite 394)	Würfelerz	= Pharmakosiderit.
Weissbleierz	= Cerussit	Ytterspath	= Xenotim.
Weissnickelkies	= Chloanthit oder Ram- melsbergit	Zinkit	} = Rothzinkerz
Weissspiessglanzerz	= Valentinit	Zinkoxyd	
Wernerit	s. Skapolithgruppe	Zinkspinell	s. Spinell
Wiluit	= Idokras	Zinnwaldit	s. Glimmergruppe
Wiserin	= Anatas oder Xenotim	Zygadit	= Albit (Feldspathgr.).

Druckfehler.

Seite 313 **Schwefel** No. 8 Col. η_6 u. Col. η lies: 51 47' statt 51 74'
 » 398 **Chalcomorphit** Zeile 5 vu " 1: 3'3069 " : 3'3067