

Mineral Name
Section

MINERAL NAMES

	MINERAL NAMES				File No.	
		$C_{31}H_{32}N_4Ni$	10.9x	3.77 ₈	7.63 ₅	29-2002
	Abelsonite	$KUO_2AsO_4 \cdot 3H_2O$	9.10x	3.83 ₉	3.34 ₈	16- 386
*	Abernathyite	Ag_2S	2.61x	2.44 ₈	2.38 ₈	14- 72
*	Acanthite syn	CH_3CONH_2	5.70x	3.54 ₉	2.86 ₆	29-2001
	Acetamide	$FeSe$	2.78x	2.16 ₉	1.82 ₇	26- 795
i	Achavalite syn					
		$NaFeSi_2O_6$	2.90x	6.37 ₉	4.42 ₈	18-1222
i	Acmite	$(Na,Ca)(Fe,Mn)(Si,Al)_2O_6$	2.96x	6.45 ₈	3.00 ₆	19- 1
*	Acmite-augite	$(Na,Ca)FeSi_2O_6$	6.38x	2.91 ₆	2.98 ₃	18-1221
i	Acmite-augite	$Ca_2(Mg,Fe)_3Si_8O_{22}(OH)_2$	2.72x	2.54x	3.40 ₉	25- 157
i	Actinolite	$Zn_2(AsO_4)(OH)$	2.45x	4.90 ₉	2.97 ₉	6- 536
i	Adamite					
		$CaMgAsO_4(OH)$	3.16x	4.13 ₇	2.59 ₇	24- 208
	Adelite	$Na_2Fe_3TiSi_6O_{20}$	8.09x	3.15x	2.70 ₈	22-1453
*	Aenigmatite syn	$Ni_9As_3O_{16}$	2.06x	3.76 ₈	2.33 ₇	18- 873
i	Aerugite	$YNbTiO_6$	2.91x	2.99 ₈	3.07 ₃	20-1401
i	Aeschynite-(Y)	$(YCeNdTh)(NbTiTa)_2O_6$	3.02x	2.95x	3.09 ₃	18- 765
i	Aeschynite-(Y), heated					
		$CeTiNbO_6$	2.98x	3.02 ₈	3.11 ₄	15- 864
*	Aeschynite syn	$Na_5Ca_4Si_6Al_6O_{23}(SO_4Cl)_3$	3.69x	3.30x	4.82 ₈	20-1086
i	Afghanite	$Ca_3Si_2O_4(OH)_6$	3.17x	2.83x	2.73 ₇	29- 330
i	Afwillite	$Cu_6(Y,Ca)(AsO_4)_3(OH)_6 \cdot 3H_2O$	11.7x	2.94 ₈	2.45 ₈	25- 183
i	Agardite	$NaCa_2Si_4O_{10}F$	3.19x	3.14x	3.44 ₈	29-1188
i	Agrellite					
		$(K_2,Ca,Sr)(UO_2)_3O_4 \cdot 4H_2O$	7.08x	3.13x	3.49 ₉	25- 630
i	Agrinierite	Ag_4SeS	2.43x	2.88 ₅	1.48 ₄	27- 620
i	Aguilarite	$NiSeO_3 \cdot 2H_2O$	5.66x	3.42 ₇	2.99 ₇	25-1233
i	Ahlfeldite syn	$CuPbBiS_3$	3.17x	3.66 ₉	3.59 ₈	25-1212
i	Aikinite	$CuPbBiS_3$	3.67x	2.86 ₉	3.59 ₉	25- 310
c	Aikinite					
		$Cu_6Al_2Si_{10}O_{29} \cdot 5H_2O$	12.4x	3.34 ₃	6.19 ₁	11- 312
	Ajoite	$FeOOH$	7.40x	3.31x	1.64x	13- 157
i	Akaganeite syn	$Mn_9(Si,Al)_{10}O_{23}(OH)_6$	4.67x	3.31 ₉	2.21 ₈	25- 533
i	Akatoreite	$(Al_2O_3)_4 \cdot H_2O$	2.11x	1.42x	1.39x	25- 17
i	Akdalaite	$Ca_2MgSi_2O_7$	2.87x	3.09 ₃	1.76 ₃	10- 391
*	Akermanite syn					
		$Mn_4Mg(AsO_4)_2(OH)_4 \cdot 4H_2O$	4.40x	8.79 ₈	2.75 ₅	20- 715
i	Akrochordite	$MgB_6O_{10} \cdot 5H_2O$	6.40x	6.10 ₅	4.72 ₅	15- 654
*	Aksaite syn	$Cu_6Hg_3As_4S_{12}$	3.10x	1.90x	1.62x	25- 298
i	Aktashite	MnS	2.61x	1.85 ₅	1.51 ₂	6- 518
*	Alabandite syn	$PbSiO_3$	3.34x	3.56x	3.53 ₈	29- 782
	Alamosite					
		$(Na,Ca)(AlSi)_4O_8$	3.21x	3.18 ₆	4.04 ₅	20- 548
c	Albite, calcian, high	$(Na,Ca)(Si,Al)_4O_8$	3.20x	4.02 ₈	3.74 ₈	9- 456
i	Albite, calcian, high syn	$(Na,Ca)(Si,Al)_4O_8$	3.18x	4.03 ₈	3.20 ₈	9- 457
i	Albite, calcian, low	$NaAlSi_3O_8$	3.18x	3.75 ₃	3.21 ₃	10- 393
*	Albite, high	$NaAlSi_3O_8$	3.21x	3.18 ₉	4.03 ₈	20- 572
c	Albite, high					
		$NaAlSi_3O_8$	4.03x	3.22 ₇	3.66 ₆	19-1184
*	Albite, low	$NaAlSi_3O_8$	3.20x	3.78 ₃	6.39 ₂	9- 466
*	Albite, low	$NaAlSi_3O_8$	3.19x	4.03 ₈	3.21 ₆	20- 554
c	Albite, low	$(Na,K)AlSi_3O_8$	3.21x	3.24 ₉	4.11 ₂	9- 478
*	Albite, potassian, high, heated	$CoCl_2 \cdot 6H_2O$	5.64x	4.83 ₆	2.93 ₆	29- 466
*	Albrittonite syn					
		$CaMgB_2O_4Cl \cdot 7H_2O$	7.46x	2.99 ₉	2.55 ₉	27- 71
o	Aldzhanite	$PbBi_2Te_2S_2$	3.09x	2.12 ₆	2.25 ₄	29- 765
	Aleksite	Cu_6As	1.99x	2.11 ₄	2.25 ₂	9- 429
i	Algodonite	$Mn_7(AsO_4)_2(OH)_8$	3.06x	3.71 ₇	3.28 ₆	17- 748
i	Allactite	$(Ca,Ce)_2(LaAl)_3Si_3O_{12}OH$	2.92x	2.71 ₇	3.53 ₃	25- 169
*	Allanite					
		$(CaFe)_2(LaAl)_3Si_3O_{12}OH$	2.96x	3.50 ₈	2.67 ₈	9- 474
i	Allanite, heated	$Ag_{1-x}Sb_x$	2.25x	2.55 ₇	2.40 ₇	25- 54
i	Allargentum syn	$Mn_3(SiO_4)_2(OH)_2$	1.80x	2.86 ₈	2.60 ₆	22- 726
i	Alleghanyite	$Mn_3(SiO_4)_2(OH)_2$	3.62x	2.86 ₉	3.14 ₈	25-1184
c	Alleghanyite	$(Co,Fe)AsS$	2.75x	2.47 ₉	1.82 ₇	25- 246
i	Alloclasite					
		$(Co,Ni)AsS$	2.72x	1.80x	2.47 ₉	16- 624
i	Alloclasite, nickeloan	$Na(Fe,Mn)_3(PO_4)_3$	2.73x	6.30 ₈	2.74 ₇	14- 245
i	Alluaudite	$Fe_3Al_2(SiO_4)_3$	2.57x	1.54 ₅	2.87 ₄	9- 427
i	Almandine	$BaCa(CO_3)_2$	3.55x	2.51 ₅	2.05 ₃	27- 32
i	Alstonite	$PbTe$	3.23x	2.28 ₈	1.44 ₅	8- 28
i	Altaite					
		$Mg_2PO_4(OH)$	3.59x	3.32 ₉	3.02 ₈	29- 869
i	Althausite	$Al_2SO_4(OH)_4 \cdot 7H_2O$	9.00x	7.80x	3.72x	8- 55
i	Aluminite	$CaAl_2(CO_3)_2(OH)_4 \cdot 3H_2O$	6.25x	6.50 ₇	3.23 ₆	21- 127
i	Alumohydrocalcite	$KAl_3(OH)_6(SO_4)_2$	1.90x	1.75 ₉	3.01 ₉	4- 865
i	Alunite	$(K,Na)Al_3(SO_4)_2(OH)_6$	2.99x	2.89x	2.29 ₈	14- 136
i	Alunite					
		$Al_2(SO_4)_3 \cdot 17H_2O$	4.49x	4.39 ₈	3.97 ₈	26-1010
i	Alunogen	$Al_6(VO_4)_2(OH)_{12} \cdot 5H_2O$	4.48x	1.48 ₉	1.98 ₈	13- 386
i	Alvanite	$(Fe,Mg)(OH)_2$	2.30x	1.73 ₉	2.80 ₈	15- 125
i	Amakinite	$FeSO_4(OH) \cdot 3H_2O$	11.3x	8.69x	3.57 ₆	17- 158
i	Amarantite	$LiAlPO_4F$	3.15x	4.64 ₈	2.96 ₈	22-1138
i	Amblygonite					
		$NaB_3O_5 \cdot 2H_2O$	3.06x	3.15 ₈	2.55 ₃	20-1081
*	Ameghinite	$(Mg,Al,Fe)_3SiAlO_5(OH)_4$	7.06x	3.52x	1.93 ₇	9- 493
i	Amesite, 2H	$Ca_3(BeOH)_2Si_3O_{10}$	2.61x	2.84 ₉	4.02 ₈	23- 80
i	Aminoffite	$NH_4B_3O_8 \cdot 3H_2O$	3.16x	3.09x	5.70 ₆	12- 637
i	Ammonioberite syn	$NH_4Fe_3(SO_4)_2(OH)_6$	3.11x	5.12 ₆	1.99 ₃	26-1014
*	Ammoniojarosite syn					
		$NaAlSi_2O_6 \cdot H_2O$	3.43x	5.60 ₆	2.93 ₉	19-1180
i	Analcime	$BaFe_3Si_4O_{10}(OH)_2$	3.32x	5.00 ₉	2.49 ₈	19- 78
i	Anandite, 2M ₁	$Ca_2Fe(PO_4)_2 \cdot 4H_2O$	3.14x	2.87 ₇	3.72 ₆	15- 583
i	Anapaite	TiO_2	3.52x	1.89 ₄	2.38 ₂	21-1272
*	Anatase syn	$(SrCa)(LaCe)(CO_3)_2(OH) \cdot H_2O$	4.34x	3.71x	2.96x	29- 384
i	Ancylite					

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* Andalusite	Al_2SiO_5	5.54x	4.53 ₉	2.77 ₉	13- 122
i Andalusite, manganooan	$(\text{Al}, \text{Mn})_2\text{SiO}_5$	5.61x	2.81 ₃	4.53 ₃	18- 36
i Andersonite	$\text{Na}_2\text{Ca}(\text{UO}_2)(\text{CO}_3)_2 \cdot 6\text{H}_2\text{O}$	13.0x	7.93x	5.67x	20-1092
i Andorite	$\text{AgPbSb}_2\text{S}_6$	3.31x	2.89x	2.75 ₆	29-1142
i Andorite, cuprian	$\text{Ag}_3\text{CuPb}_4\text{Sb}_{12}\text{S}_{24}$	3.30x	2.89 ₆	3.42 ₆	13- 462
i Andradite, manganooan	$(\text{Ca}, \text{Mn})_3(\text{Fe}, \text{Al})_2(\text{SiO}_4)_3$	2.62x	1.57x	2.92 ₉	10- 367
* Andradite syn	$\text{Ca}_3\text{Fe}_2(\text{SiO}_4)_3$	2.70x	3.02 ₆	1.61 ₆	10- 288
* Andremerite	$\text{BaFe}_2\text{Si}_2\text{O}_7$	3.06x	3.12 ₆	3.29 ₆	26-1031
i Angelellite	$\text{Fe}_4\text{As}_2\text{O}_{11}$	3.15x	3.00 ₇	2.86 ₅	13- 121
* Anglesite syn	PbSO_4	3.00x	4.26 ₉	3.33 ₉	5- 577
* Anhydrite syn	CaSO_4	3.50x	2.85 ₄	2.33 ₂	6- 226
c Anilite	Cu_7S_4	1.96x	3.35 ₆	3.36 ₆	24- 58
i Anilite syn	Cu_7S_4	1.96x	2.77 ₇	3.20 ₆	22- 250
* Ankerite	$\text{Ca}(\text{Mg}_{0.67}\text{Fe}_{0.33})(\text{CO}_3)_2$	2.90x	2.20 ₁	1.81 ₁	12- 88
* Annabergite	$\text{Ni}_3\text{As}_2\text{O}_8 \cdot 8\text{H}_2\text{O}$	6.58x	2.98 ₃	3.18 ₃	11- 625
i Annite, 1M syn	$\text{KFe}_3\text{AlSi}_3\text{O}_{10}(\text{OH})_2$	10.3x	3.38 ₈	2.65 ₇	14- 233
c Anorthite, low	$\text{CaAl}_2\text{Si}_2\text{O}_8$	3.19x	3.18 ₉	3.21 ₆	20- 20
* Anorthite, low	$\text{CaAl}_2\text{Si}_2\text{O}_8$	3.20x	3.18 ₈	4.04 ₆	12- 301
i Anorthite, sodian, high syn	$(\text{Ca}, \text{Na})(\text{Si}, \text{Al})_4\text{O}_8$	3.20x	4.03 ₈	3.75 ₈	10- 360
* Anorthite, sodian, inter	$(\text{Ca}, \text{Na})(\text{Si}, \text{Al})_4\text{O}_8$	3.18x	3.76 ₇	3.21 ₇	18-1202
c Anorthite, sodian, low	$(\text{Ca}, \text{Na})(\text{Si}, \text{Al})_4\text{O}_8$	3.20x	3.21 ₉	3.18 ₉	20- 528
i Anorthite, sodian, low	$(\text{Ca}, \text{Na})(\text{Si}, \text{Al})_4\text{O}_8$	3.20x	3.18 ₉	4.04 ₆	9- 465
* Antarcite syn	$\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$	2.16x	3.93 ₉	2.79 ₈	26-1053
i Anthoinite	$\text{AlWO}_3(\text{OH})_3$	5.63x	4.19 ₉	3.97 ₇	25-1489
o Anthoinite	$\text{AlWO}_3(\text{OH})_3$	4.20x	3.07x	3.05x	11- 144
i Anthonyite	$\text{Cu}(\text{OH}, \text{Cl})_2 \cdot 3\text{H}_2\text{O}$	5.84x	4.14 ₇	3.99 ₆	15- 670
i Anthophyllite	$(\text{Mg}, \text{Fe})_7\text{Si}_8\text{O}_{22}(\text{OH})_2$	3.05x	3.24 ₆	8.26 ₆	9- 455
i Antigorite, M8alblc	$\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$	7.29x	2.53x	3.61 ₈	21- 963
i Antimonpearceite	$(\text{Ag}, \text{Cu})_{18}(\text{Sb}, \text{As})_2\text{S}_{11}$	2.98x	2.82 ₉	3.09 ₅	29-1137
* Antimony syn	Sb	3.11x	2.25 ₇	1.37 ₇	5- 562
* Antlerite syn	$\text{Cu}_3(\text{SO}_4)(\text{OH})_4$	4.86x	2.57 ₉	3.60 ₈	7- 407
* Aphthalite syn	$\text{K}_3\text{Na}(\text{SO}_4)_2$	2.84x	2.94 ₈	2.04 ₅	20- 928
* Apjohnite	$\text{MnAl}_2(\text{SO}_4)_4 \cdot 22\text{H}_2\text{O}$	3.52x	4.82 ₉	3.79 ₄	29- 886
* Apowite syn	$\text{CoSO}_4 \cdot 4\text{H}_2\text{O}$	4.46x	5.44 ₉	3.94 ₅	16- 488
* Aragonite syn	CaCO_3	3.40x	1.98 ₇	3.27 ₅	5- 453
i Aramayoite	$\text{Ag}(\text{Sb}, \text{Bi})\text{S}_2$	2.82x	3.22 ₄	1.94 ₃	4- 696
* Arcanite syn	K_2SO_4	2.90x	3.00 ₈	2.89 ₅	5- 613
i Ardennite	$\text{Mn}_3\text{Al}_2(\text{Si}, \text{As}, \text{V})_4\text{O}_{24}(\text{OH})_2$	2.57x	2.91 ₇	4.21 ₆	18- 141
i Arfvedsonite	$(\text{NaK})_{2-6}\text{Fe}_3\text{Si}_8\text{O}_{22}(\text{OH})_2$	3.16x	2.73 ₈	8.51 ₇	14- 633
* Argentojarosite syn	$\text{AgFe}_3(\text{SO}_4)_2(\text{OH})_6$	3.06x	5.98 ₅	3.68 ₃	25-1327
i Argentopyrite	AgFe_2S_3	3.34x	1.81 ₇	3.62 ₅	7- 347
i Argyrodite	$\text{Ag}_8(\text{Ge}, \text{Sn})\text{S}_6$	3.02x	1.86 ₅	2.66 ₄	14- 356
* Aristarainite	$\text{Na}_2\text{MgB}_{12}\text{O}_{20} \cdot 10\text{H}_2\text{O}$	7.74x	2.58 ₂	3.04 ₁	26-1379
o Arizonite	$\text{Fe}_2\text{Ti}_3\text{O}_9$	3.50x	2.66 ₉	2.51 ₈	29-1494
i Armalcolite syn	$\text{FeMgTi}_4\text{O}_{10}$	3.49x	4.88 ₈	2.76 ₈	24- 522
i Armangite	$\text{Mn}_3(\text{AsO}_4)_2$	2.76x	2.94 ₇	2.43 ₇	19- 780
i Armenite	$\text{BaCa}_2\text{Al}_6\text{Si}_6\text{O}_{30} \cdot 2\text{H}_2\text{O}$	3.86x	3.41 ₉	2.91 ₉	20- 112
i Armstrongite	$\text{CaZrSi}_6\text{O}_{15} \cdot 2.5\text{H}_2\text{O}$	4.26x	3.05x	6.60 ₉	29- 395
i Arrojadite	$\text{Na}_2(\text{Mn}, \text{Fe})_3(\text{PO}_4)_4$	3.04x	2.72 ₈	3.22 ₆	24- 66
i Arsenate-belovite	$\text{Ca}_2\text{Mg}(\text{AsO}_4)_2 \cdot 2\text{H}_2\text{O}$	3.07x	2.77x	3.21 ₆	17- 164
i Arsenbrackebuschite	$\text{Pb}_2(\text{Fe}, \text{Zn})(\text{AsO}_4)_2 \cdot \text{H}_2\text{O}$	3.02x	3.00x	3.27 ₉	29-1428
* Arsenic syn	As	2.77x	3.52 ₃	1.88 ₃	5- 632
i Arsenioplite	$(\text{H}_3\text{O}, \text{Ca})_8(\text{MnFe})_{12}(\text{AsO}_4)_{12}$	2.83x	2.68 ₆	2.99 ₅	20- 224
i Arseniosiderite	$\text{Ca}_3\text{Fe}_4(\text{AsO}_4)_4(\text{OH})_6 \cdot 3\text{H}_2\text{O}$	8.84x	2.77 ₈	5.62 ₅	26-1002
i Arsenobismite	$\text{Bi}_2(\text{AsO}_4)(\text{OH})_3$	3.11x	6.06 ₉	1.84 ₈	7- 358
i Arsenoclasite	$\text{Mn}_3(\text{AsO}_4)_2(\text{OH})_4$	2.93x	2.74 ₈	4.55 ₇	20- 704
i Arsenolamprite	As	5.44x	2.72x	1.12x	13- 580
i Arsenolamprite syn	As	2.73x	2.75 ₇	1.74 ₄	29- 142
* Arsenolite syn	As_2O_3	3.20x	6.39 ₆	2.54 ₄	4- 566
i Arsenopalladinite	$\text{Pd}_8(\text{As}, \text{Sb})_3$	2.13x	2.34 ₆	1.41 ₄	29- 959
c Arsenopyrite	FeAsS	2.44x	2.66 ₆	2.42 ₆	25-1230
* Arsenopyrite	FeAsS	2.68x	2.66x	2.42x	14- 218
o Arsenosulvanite	$\text{Cu}_3\text{As}_4\text{S}_4$	3.04x	1.87x	1.59 ₅	25- 265
* Arsentsumebite	$\text{Pb}_2\text{Cu}(\text{OH})(\text{SO}_4)(\text{AsO}_4)$	3.25x	4.80 ₇	2.76 ₆	25- 456
i Arsenuranylite	$\text{Ca}(\text{UO}_2)_4(\text{AsO}_4)_2(\text{OH})_4 \cdot 6\text{H}_2\text{O}$	7.72x	3.85x	8.41 ₈	14- 268
i Arthurite	$\text{Cu}_2\text{Fe}_4(\text{AsO}_4\text{PO}_4)_4\text{O}_4 \cdot 8\text{H}_2\text{O}$	4.28g	4.81g	6.97x	16- 397
* Artinite	$\text{Mg}_2\text{CO}_3(\text{OH})_2 \cdot 3\text{H}_2\text{O}$	2.74x	5.34 ₇	3.69 ₅	6- 484
i Asbecasite	$\text{Ca}_3(\text{Ti}, \text{Sn})\text{As}_6\text{Si}_2\text{Be}_2\text{O}_{20}$	3.23x	1.57 ₇	1.15 ₇	19- 87
* Ashcroftite	$\text{KNaCaY}_2\text{Si}_6\text{O}_{12}(\text{OH})_{10} \cdot 4\text{H}_2\text{O}$	17.0x	12.0 ₉	7.62 ₆	22- 508
i Astrophyllite	$\text{K}_3(\text{FeMn})_7\text{Ti}_2\text{Si}_8\text{O}_{24}\text{O}_3(\text{OH})_4$	10.6x	3.51 ₈	2.77 ₆	14- 194
i Atacamite	$\text{Cu}_2\text{Cl}(\text{OH})_3$	5.48x	5.03 ₇	2.28 ₇	25- 269
i Atelestite	$\text{Bi}_6(\text{AsO}_4)_3\text{O}_3(\text{OH})_5$	3.24x	3.12 ₄	2.73 ₃	15- 735
i Athabascaite	Cu_5Se_4	3.24x	2.00 ₈	3.02 ₆	21-1016
i Atheneite	$(\text{Pd}, \text{Hg})_3\text{As}$	2.42x	2.25 ₉	1.37 ₈	26- 889
i Atokite	$(\text{Pd}, \text{Pt})_3\text{Sn}$	2.30x	1.20x	1.41 ₉	29- 967
i Attakolite	$\text{Ca}_3\text{Al}_6(\text{PO}_4)_3(\text{SiO}_4)_3 \cdot 3\text{H}_2\text{O}$	3.09x	3.13 ₈	4.34 ₇	18- 146
i Augelite	$\text{Al}_2\text{PO}_4(\text{OH})_3$	3.34x	3.51 ₉	4.00 ₈	14- 380
* Augite	$\text{Ca}(\text{Fe}, \text{Mg})\text{Si}_2\text{O}_6$	3.00x	2.53 ₈	2.96 ₅	24- 201
* Augite	$\text{Ca}(\text{Mg}, \text{Fe})\text{Si}_2\text{O}_6$	2.99x	3.23 ₈	2.95 ₇	24- 203
* Augite, aluminian	$\text{Ca}(\text{Mg}, \text{Al}, \text{Fe})\text{Si}_2\text{O}_6$	2.99x	2.55 ₄	2.13 ₄	24- 202

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		$(\text{Zn,Cu})_5(\text{CO}_3)_2(\text{OH})_6$	6.78x	2.61 ₈	3.68 ₇	17- 743
i	Aurichalcite	$(\text{Cu,Pd})_3\text{Au}_2$	2.23x	1.94 ₇	1.92 ₇	25- 301
o	Auricupride	$(\text{Mn,Ag,Ca})\text{Mn}_3\text{O}_7 \cdot 3\text{H}_2\text{O}$	6.94x	3.46 ₇	4.06 ₅	19- 88
	Aurorite	AuSb_2	2.01x	2.98 ₈	3.33 ₇	8- 460
*	Aurostibite syn	$\text{CaZnAsO}_4(\text{OH})$	3.17x	2.80x	2.64x	25- 185
i	Austinite					
		$(\text{Ca,Sr})(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 10.6\text{H}_2\text{O}$	10.4x	5.19 ₅	3.58 ₅	12- 418
i	Autunite	$\text{Fe}_2\text{Ti}_{14}\text{O}_{24}$	3.03x	1.86x	1.58 ₉	13- 550
o	Avicennite	KBF_4	3.41x	3.26 ₈	3.06 ₈	16- 378
*	Avogadrite syn	$\text{Mg}_2(\text{Fe,Ti,Mg})\text{BO}_3\text{O}_2$	2.52x	5.07 ₈	2.16 ₆	25- 523
o	Azoprite	$\text{Fe}_3(\text{PO}_4)(\text{OH})_6 \cdot 3\text{H}_2\text{O}$	4.79x	2.74 ₉	6.15 ₈	24- 527
i	Azovskite					
		$\text{Cu}_3(\text{CO}_3)_2(\text{OH})_2$	3.52x	2.22 ₇	5.15 ₆	11- 682
*	Azurite	$\text{BaBePO}_4(\text{O,F})$	3.19x	2.16x	1.52x	18- 157
i	Babefphite	$\text{Ca}_2\text{Fe}_2\text{Si}_2\text{O}_{14}(\text{OH})$	2.75x	2.87 ₈	3.12 ₇	14- 321
i	Babingtonite	ZrO_2	3.16x	2.83 ₇	2.62 ₂	13- 307
*	Baddeleyite	$\text{BaFe}_2\text{TiSi}_2\text{O}_9$	2.65x	2.11 ₄	1.72 ₄	14- 541
i	Bafertisitite					
		$\text{Al}_{5.6}\text{Sb}_{2.95}\text{Fe}_{0.09}\text{O}_{16}$	3.24x	3.19x	4.70 ₉	29- 2
c	Bahianite	$\text{Sb}_2\text{Al}_3\text{O}_{14}(\text{OH})_2$	3.24x	3.19x	2.16 ₈	29- 3
i	Bahianite	$\text{Ca}_4\text{B}_4(\text{BO}_4)_3(\text{SiO}_4)_3(\text{OH})_3 \cdot \text{H}_2\text{O}$	3.11x	2.85 ₆	2.24 ₆	14- 686
i	Bakerite	$\text{Cu}_9\text{HgAg}_3\text{S}_8$	2.98x	2.55x	2.61 ₉	25- 299
i	Balkanite syn	$\text{Cu}(\text{Se,Te})_2$	3.19x	1.96 ₇	1.65 ₅	25- 313
i	Bambollaite					
		$\text{Na}_2\text{Ba}(\text{Al}_2\text{Si}_2\text{O}_8)_2$	3.53x	5.20 ₉	8.50 ₈	23- 651
i	Banalsite	$\text{CuB}(\text{OH})_4\text{Cl}$	5.59x	3.08 ₈	2.54 ₈	12- 631
i	Bandyite	$\text{Mn}_3\text{Al}_2\text{Si}_7\text{O}_{20}(\text{OH})_8$	12.2x	2.64 ₅	3.43 ₄	17- 467
i	Bannisterite	$\text{K}_{1.5}(\text{MnFe})_4(\text{SiAl})_7\text{O}_{14}(\text{OH})_8$	12.3x	3.44 ₂	4.09 ₂	21- 57
i	Bannisterite	$\text{Ba}_4\text{Ti}_7\text{NbSi}_4\text{O}_{28}\text{Cl}$	1.33x	1.42 ₂	3.52 ₁	14- 657
i	Baotite					
		$\text{Li}_2\text{KCa}_8\text{Ti}_2\text{Si}_{12}\text{O}_{37}\text{F}$	3.22x	2.41 ₂	1.92 ₂	29- 821
o	Baratovite	$\text{FeFe}_2(\text{PO}_4)_2(\text{OH})_2$	3.36x	3.31 ₈	4.84 ₆	11- 423
i	Barbasalite	$\text{V}_{10}\text{O}_{24} \cdot 12\text{H}_2\text{O}$	14.2x	3.48 ₈	3.43 ₈	25-1006
i	Bariandite	$(\text{Mg,Fe})_3(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$	6.71x	2.70 ₇	2.96 ₆	29- 705
*	Baricite	$\text{BaTa}_2(\text{O,OH})_7$	3.03x	6.04 ₈	3.18 ₇	16- 616
i	Bariomicrolite					
		$(\text{Ba,Sr})\text{Nb}_2\text{O}_6(\text{OH})$	3.04x	6.09 ₈	1.86 ₇	12- 285
i	Bariopyrochlore	BaSO_4	3.45x	3.10x	2.12 ₈	24-1035
*	Barite syn	$\text{Na}_2\text{V}_6\text{O}_{16} \cdot 3\text{H}_2\text{O}$	7.90x	3.12 ₇	3.45 ₄	16- 601
*	Barnesite	$(\text{NaKCa})_2(\text{SiAl})_4\text{O}_{18} \cdot 7\text{H}_2\text{O}$	9.10x	4.05x	3.03 ₈	29-1185
i	Barrerite	Fe_2P	2.24x	2.05x	1.92 ₉	27-1171
i	Barringerite syn					
		$\text{MgCO}_3 \cdot 2\text{H}_2\text{O}$	8.68x	3.09x	2.94x	18- 768
i	Barringtonite	$\text{BaBe}_2\text{Si}_2\text{O}_7$	2.93x	3.39x	2.99x	20- 119
i	Barylite syn	$\text{Pb}_8\text{Mn}(\text{Si}_2\text{O}_7)_3$	2.96x	2.77 ₈	2.68 ₈	23- 404
*	Barysilite	$\text{BaCa}(\text{CO}_3)_2$	3.13x	3.14 ₉	4.02 ₄	15- 285
*	Barytocalcite	$(\text{NaK})_2\text{Ba}_2\text{Ti}_3(\text{SiO}_4)_4\text{O}_2$	2.85x	2.19 ₉	1.51 ₉	20- 133
o	Barytolamprophyllite					
		$\text{Al}_4\text{SO}_4(\text{OH})_{10} \cdot 5\text{H}_2\text{O}$	9.38x	4.69 ₇	5.93 ₅	24- 7
i	Basaluminite	$\text{Ca}_2(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$	6.01x	3.01x	2.80x	24-1068
i	Bassanite, high syn	$\text{Ca}_2(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$	2.77x	5.94 ₇	2.97 ₇	24-1067
i	Bassanite, low syn	$\text{Fe}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$	4.89x	3.46x	8.59 ₆	7- 288
i	Bassetite	CeCO_3F	2.88x	3.56 ₇	4.88 ₄	11- 340
i	Bastnaesite					
		YCO_3F	2.78x	1.95x	3.43 ₈	25-1009
o	Bastnaesite-(Y)	$\text{Na}_2\text{BaTi}_2(\text{Si}_2\text{O}_7)_2$	2.92x	3.40 ₅	2.16 ₅	14- 636
i	Batisite	$\text{Pb}_3\text{As}_4\text{S}_9$	4.15x	2.96 ₉	3.59 ₈	12- 281
i	Baumhauerite	$(\text{MgMnFeZn})_3(\text{SiAl})_2\text{O}_5(\text{OH})_4$	7.23x	3.59 ₆	2.51 ₃	29- 704
i	Baumite, 1T	$\text{BaU}_2\text{O}_7 \cdot 4-5\text{H}_2\text{O}$	3.09x	3.41 ₇	1.98 ₈	25-1469
o	Bauranoite					
		$\text{Ca}_4\text{BeAl}_2\text{Si}_9\text{O}_{24}(\text{OH})_2$	3.71x	3.35 ₉	3.22 ₈	13- 535
i	Bavenite	$\text{Al}(\text{OH})_3$	2.22x	4.71 ₉	4.35 ₇	20- 11
*	Bayerite syn	$\text{Cu}_3\text{Pb}(\text{AsO}_4)_2(\text{OH})_2$	3.15x	2.93 ₈	3.23 ₇	26-1410
i	Bayldonite	$\text{Mg}_2(\text{UO}_2)(\text{CO}_3)_3 \cdot 18\text{H}_2\text{O}$	7.66x	13.1 ₉	3.83 ₆	4- 130
i	Bayleyite	$\text{K}_2\text{Mg}(\text{CO}_3)_2 \cdot 4\text{H}_2\text{O}$	3.01x	2.98 ₉	6.31 ₈	29-1017
i	Baylissite syn					
		$\text{BaZrSi}_2\text{O}_9$	3.79x	2.80x	5.82 ₄	29- 214
*	Bazirite syn	$\text{Be}_2(\text{Sc}_{1.75}\text{Fe}_{0.25})\text{Si}_6\text{O}_{18}$	3.31x	8.27 ₉	2.96 ₈	20- 165
*	Bazzite syn	$\text{Be}_2\text{AsO}_4(\text{OH}) \cdot 4\text{H}_2\text{O}$	6.95x	3.31 ₈	4.23 ₆	15- 378
i	Bearsite	$\text{Pb}(\text{Cu,Fe,Al})_3(\text{SO}_4)_2(\text{OH})_6$	5.85x	3.03x	2.28 ₅	17- 476
i	Beaverite	$\text{Ca}(\text{UO}_2)_6(\text{OH})_{14} \cdot 4\text{H}_2\text{O}$	7.44x	3.20 ₄	3.73 ₃	13- 405
i	Becquerelite					
		$\text{CaU}_6\text{O}_{19} \cdot 10\text{H}_2\text{O}$	7.49x	3.21 ₈	3.55 ₄	29- 389
i	Becquerelite syn	TaBO_4	1.59x	3.10 ₈	2.33 ₆	7- 131
i	Behierite syn	$\text{Be}(\text{OH})_2$	2.38x	3.93 ₉	3.80 ₈	7- 341
i	Behoite syn	$\text{Ca}_{-2}\text{Al}_2\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot x\text{H}_2\text{O}$	17.6x	4.42x	3.95x	19- 150
i	Beidellite, glycerol, Ca saturated	Cu_2Se	2.06x	3.38 ₈	1.76 ₇	29- 575
i	Bellidoite					
		$\text{Cu}_3(\text{IO}_3)_6 \cdot 2\text{H}_2\text{O}$	3.72x	3.35 ₉	3.17 ₉	19- 393
*	Bellingerite	$\text{Sr}_3(\text{Ce,Na,Ca})_2(\text{PO}_4)_3\text{OH}$	2.90x	3.17 ₇	2.79 ₇	17- 519
i	Belovite	$\text{Mn}_5\text{Si}_4\text{O}_{10}(\text{OH})_6$	3.66x	7.25 ₉	3.58 ₉	25- 546
i	Bementite	$\text{BaTiSi}_3\text{O}_9$	3.71x	2.72 ₉	2.86 ₈	26-1036
i	Benitoite	$(\text{Ag,Cu})_3(\text{Bi,Pb})_7\text{S}_{12}$	2.85x	3.54 ₈	3.43 ₈	29- 577
*	Benjaminite					
		$\text{Ca}_7\text{Ba}_6(\text{CO}_3)_{13}$	3.09x	3.92 ₄	2.54 ₃	14- 637
*	Benstonite	$\text{Fe}_6(\text{PO}_4)_4(\text{OH})_5 \cdot 4\text{H}_2\text{O}$	10.4x	4.83 ₆	3.08 ₆	22- 631
i	Beraunite	$\text{Be}_2\text{BO}_3\text{OH} \cdot \text{H}_2\text{O}$	5.34x	3.12x	2.67 ₆	22- 107
*	Berberite syn	$\text{Ba}(\text{UO}_2)_4(\text{PO}_4)_2(\text{OH})_4 \cdot 8\text{H}_2\text{O}$	7.78x	3.88x	3.08x	20- 154
i	Bergenerite	AlPO_4	3.37x	4.28 ₃	1.84 ₂	10- 423
*	Berlinite syn					
		$\text{MnMn}_2(\text{OH})_2(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$	9.63x	2.91 ₄	4.82 ₃	20- 712
*	Bermanite	SnS_2	5.89x	2.78 ₆	3.16 ₃	23- 677
*	Berndtite syn	$\text{Pb}_3(\text{Cu,Ag})_3\text{Bi}_7\text{S}_{16}$	3.51x	2.91x	3.50 ₉	19- 703
i	Berryite	$\text{Pb}_2(\text{Ag,Cu})_3\text{Bi}_3\text{S}_{11}$	3.47x	2.89 ₈	2.80 ₇	19- 702
i	Berryite	$(\text{Fe,Al})_3(\text{Si,Al})_2\text{O}_5(\text{OH})_4$	7.12x	3.55x	2.53x	7- 339
i	Berthierine, 1H					

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						File No.
i	Berthierine, 1M	(Fe,Al) ₃ (Si,Al) ₂ O ₃ (OH) ₄	7.05x	3.52x	2.52 ₉	7- 315
*	Berthierite syn	FeSb ₂ S ₄	2.60x	2.62x	3.66 ₉	24- 509
*	Bertrandite	Be ₄ Si ₂ O ₇ (OH) ₂	3.81x	2.54 ₈	4.39 ₉	12- 452
*	Beryl	Be ₃ Al ₂ Si ₆ O ₁₈	2.87x	3.25x	7.98 ₉	9- 430
	Beryllite	Be ₃ SiO ₄ (OH) ₂ ·H ₂ O	2.34x	4.07 ₉	2.99 ₈	20- 166
	Beryllite	Be ₃ SiO ₄ (OH) ₂ ·H ₂ O	4.01x	2.34x	3.64 ₉	13- 411
i	Beryllonite	NaBePO ₄	2.84x	3.65 ₉	2.28 ₇	6- 443
i	Berzelianite	Cu ₂ -xSe	2.03x	3.33 ₉	1.73 ₈	6- 680
i	Berzeliite	(Ca,Na) ₃ (Mg,Mn) ₂ (AsO ₄) ₃	2.75x	1.71 ₇	1.65 ₇	19- 165
o	Betafite, heated	(U,Ca)(Nb,Ta,Ti)O ₃ ·xH ₂ O	3.20x	2.50 ₈	4.05 ₆	18-1154
i	Betafite, heated	(CaU) ₂ -x(NbTi) ₂ O ₆ (OHF) _{1-z}	2.96x	1.81 ₅	1.55 ₄	13- 197
i	Beta-roselite	Ca ₂ Co(AsO ₄) ₂ ·2H ₂ O	2.77x	3.20 ₈	3.07 ₈	17- 166
i	Beta-uranophane	Ca(UO ₂) ₂ (SiO ₃ OH) ₂ ·5H ₂ O	7.83x	3.90 ₉	3.51 ₆	8- 301
i	Betekhtinite	Cu ₁₀ (Pb,Fe)S ₈	2.94x	1.83 ₉	3.08 ₈	25-1222
i	Betpakdalite	CaFe ₂ H ₈ (Mo ₃ As ₂)O ₂₈ ·10H ₂ O	8.80x	3.62 ₉	9.64 ₈	25- 148
i	Beudantite	PbFe ₃ (AsO ₄)(SO ₄)(OH) ₆	3.08x	5.99 ₈	3.67 ₇	19- 689
i	Beusite	(Mn,Fe) ₃ (PO ₄) ₂	3.49x	2.86x	2.71 ₆	21- 967
i	Beyerite	CaBi ₂ O ₂ (CO ₃) ₂	2.85x	10.9 ₉	3.35 ₉	22-1067
i	Bianchite	(Zn,Fe)SO ₄ ·6H ₂ O	4.42x	4.03 ₉	2.97 ₈	12- 16
i	Bicchulite syn	Ca ₂ Al ₂ SiO ₆ (OH) ₂	2.79x	3.61x	2.08 ₄	27- 66
i	Bideauxite	Pb ₂ AgCl ₃ (F,OH) ₂	2.72x	3.53 ₉	2.50 ₉	25- 461
*	Bieberite syn	CoSO ₄ ·7H ₂ O	4.87x	3.76 ₈	4.82 ₆	16- 487
i	Bikitaite	LiAlSi ₂ O ₆ ·H ₂ O	3.46x	3.37x	4.20 ₉	14- 168
i	Bilibinskite	Au ₃ Cu ₂ PbTe ₂	2.37x	2.05 ₇	1.45 ₆	29- 544
i	Bilinite	Fe ₃ (SO ₄) ₄ ·22H ₂ O	4.31x	3.51x	4.84 ₅	25-1153
i	Billietite syn	Ba(UO ₂) ₆ (OH) ₁₄ ·4H ₂ O	3.18x	7.53 ₈	3.50 ₇	29- 208
i	Billingsleyite syn	Ag ₃ As ₂ S ₆	3.03x	2.80 ₇	2.47 ₇	21-1334
i	Bindheimite syn	Pb ₂ Sb ₂ O ₆ (O,OH)	3.01x	1.85 ₃	2.61 ₂	18- 687
i	Biotite, 1M	K(Fe,Mg) ₃ AlSi ₃ O ₁₀ (OH) ₂	10.1x	3.37x	2.66 ₈	2- 45
i	Biphosphammite, potassian	(NH ₄ ,K)H ₂ PO ₄	3.75x	5.24 ₉	3.02 ₉	29- 74
*	Biphosphammite syn	(NH ₄)H ₂ PO ₄	5.32x	3.07 ₉	3.06 ₈	6- 125
i	Biringuccite, 1M syn	Na ₄ B ₁₀ O ₁₇ ·4H ₂ O	10.3x	3.45 ₈	5.17 ₆	16- 706
i	Birnessite syn	Na ₄ Mn ₁₄ O ₂₇ ·9H ₂ O	7.09x	3.56 ₈	2.51 ₇	23-1046
*	Birunite	Ca ₁₆ C ₆ Si ₉ SO ₄₉ ·15H ₂ O	2.60x	1.78x	1.94 ₈	15- 75
*	Bischofite syn	MgCl ₂ ·6H ₂ O	4.10x	2.64 ₉	2.88 ₇	25- 515
*	Bismite syn	Bi ₂ O ₃	3.25x	2.71 ₄	2.69 ₄	14- 699
*	Bismoclite syn	BiOCl	3.44x	2.68x	2.75 ₈	6- 249
*	Bismuth syn	Bi	3.28x	2.27 ₄	2.37 ₄	5- 519
*	Bismuthinite syn	Bi ₂ S ₃	3.57x	3.12 ₈	3.53 ₆	17- 320
*	Bismutite	Bi ₂ O ₂ CO ₃	2.95x	2.74 ₄	3.72 ₃	25-1464
	Bismutoferrite	Fe ₂ Bi(SiO ₄) ₂ (OH)	7.63x	3.87x	2.90 ₇	11- 174
i	Bismutomicrolite	(Bi,Ca)(Ta,Nb) ₂ O ₆ (OH)	3.00x	1.84 ₉	1.57 ₉	26-1042
*	Bismutatantalite syn	BiTaO ₄	3.14x	2.94 ₄	1.73 ₃	16- 909
i	Biteplapalladinite syn	(PdTe ₂) ₃ H	2.87x	2.06 ₉	2.01 ₉	18- 955
i	Bityite, 2M ₁	CaAl ₂ Li(AlBeSi ₂)O ₁₀ (OH) ₂	2.48x	1.45x	2.04 ₉	11- 400
*	Bixbyite syn	Mn ₂ O ₃	2.72x	1.66 ₃	3.84 ₃	10- 69
c	Bjarebyite	Ba(Mn,Fe) ₂ Al ₂ (PO ₄) ₃ (OH) ₃	8.79x	3.09x	3.03 ₅	28- 145
*	Bjarebyite	Ba(Mn,Fe) ₂ Al ₂ (PO ₄) ₃ (OH) ₃	8.95x	3.12 ₈	2.90 ₅	29- 171
	Blakeite	Fe-Te-O	3.00x	2.54 ₉	1.72 ₈	7- 377
i	Blixite	Pb ₂ Cl(O,OH) ₂	2.93x	3.88 ₈	1.66 ₈	12- 542
*	Bloedite	Na ₂ Mg(SO ₄) ₂ ·4H ₂ O	3.25x	4.56x	3.29x	19-1215
*	Bobierite syn	Mg ₃ (PO ₄) ₂ ·8H ₂ O	6.96x	2.94 ₃	8.04 ₂	16- 330
*	Boehmite syn	AlOOH	6.11x	3.16 ₇	2.35 ₈	21-1307
i	Boggildite	Na ₂ Sr ₂ Al ₂ F ₉ (PO ₄)	3.16x	3.89 ₈	3.96 ₇	14- 417
i	Bohdanowiczite	AgBiSe ₂	2.93x	2.10 ₈	2.04 ₈	29-1441
o	Bokite	KAl ₃ Fe ₄ V ₆ (V ₂₀ O ₇₆)·30H ₂ O	10.2x	3.45 ₉	2.62 ₈	15- 279
*	Boleite	Pb ₂₆ Ag ₉ Cu ₂₄ Cl ₆₂ (OH) ₄₈	4.42x	3.82 ₈	2.70 ₆	27-1206
i	Boltwoodite	K(H ₃ O)UO ₂ SiO ₄ ·0-1(H ₂ O)	6.81x	3.40 ₉	3.54 ₇	29-1026
i	Bonaccordite	Ni ₂ FeBO ₃ O ₂	2.55x	2.51x	5.10 ₅	29- 930
i	Bonattite	CuSO ₄ ·3H ₂ O	4.42x	5.11 ₇	3.65 ₆	22- 249
i	Bonchevite	(PbBi ₄ S ₇) ₄₈ O	3.44x	1.95 ₈	3.12 ₇	25- 430
i	Boracite, low	Mg ₃ B ₇ O ₁₃ Cl	2.06x	3.04 ₇	2.72 ₅	5- 710
*	Borax syn	Na ₂ B ₄ O ₇ ·10H ₂ O	2.57x	2.85 ₈	4.86 ₆	24-1055
i	Borcarite	Ca ₄ Mg(B ₄ O ₆ (OH) ₆)(CO ₃) ₂	2.66x	1.88 ₉	2.90 ₈	22- 532
i	Borishanskiite	Pd(As,Pb) ₂	2.65x	2.16 ₉	2.50 ₆	29- 960
i	Bornemanite	Na ₇ BaTi ₂ NbSi ₄ O ₁₇ PO ₄ F	24.1x	8.04x	3.44x	29-1176
o	Bornhardtite	Co ₂ Se ₄	2.70x	2.40x	2.30x	15- 463
i	Bornite	Cu ₅ FeS ₄	1.94x	3.18 ₆	2.74 ₅	14- 323
i	Borovskite	Pd ₃ SbTe ₄	2.90x	2.04 ₆	1.55 ₅	26-1426
i	Botallackite	Cu ₂ Cl(OH) ₃	5.66x	2.40 ₈	2.57 ₇	8- 88
i	Botryogen	MgFe(OH)(SO ₄) ₂ ·7H ₂ O	8.87x	3.00 ₈	6.29 ₆	17- 157
*	Boulangerite	Pb ₃ Sb ₄ S ₁₁	3.73x	3.22 ₅	3.03 ₄	18- 688
i	Bournonite	CuPbSbS ₃	2.74x	1.77 ₅	2.69 ₅	12- 94
*	Boussingaultite syn	(NH ₄) ₂ Mg(SO ₄) ₂ ·6H ₂ O	4.22x	2.09x	5.11 ₉	17- 135
*	Boyleite syn	ZnSO ₄ ·4H ₂ O	4.48x	5.46 ₈	3.97 ₆	18-1489
i	Bracewellite	CrO(OH)	4.09x	2.65 ₈	2.55 ₇	25-1497
i	Brackebuschite	Pb ₂ (Mn,Fe)(VO ₄) ₂ ·H ₂ O	3.25x	4.95 ₈	2.76 ₈	6- 284
*	Bradleyite	Na ₃ Mg(PO ₄)(CO ₃)	2.66x	3.31 ₇	8.85 ₅	22- 478
i	Braggite	((Pt,Pd)S)	2.86x	2.93 ₃	2.64 ₃	9- 421
c	Braggite	Pt _{0.64} Pd _{0.27} Ni _{0.14} S	2.62x	2.92x	2.85x	26-1301

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					File No.
* Braitschite	(CaNa ₂) ₇ Ce ₂ B ₂₂ O ₄₃ ·7H ₂ O	4.28x	3.02 ₉	10.5 ₆	21- 158
o Brammallite, 2M ₁	NaAl ₂ (Si,Al) ₄ O ₁₀ (OH) ₂	9.77x	3.17x	1.49x	27- 20
i Brandtite	Ca ₂ Mn(AsO ₄) ₂ ·2H ₂ O	3.01x	3.24 ₇	3.37 ₆	29- 348
i Brannerite, heated	UTi ₂ O ₆	3.42x	1.90 ₆	2.46 ₇	8- 2
* Brannerite syn	UTi ₂ O ₆	3.44g	3.35g	4.74x	12- 477
i Brannockite	Li ₃ KS ₂ Si ₁₂ O ₃₀	4.11x	2.91 ₉	7.14 ₈	26- 853
i Brassite syn	MgHAsO ₄ ·4H ₂ O	4.95x	3.08x	5.55 ₆	23-1228
i Braunite, disordered syn	Mn ₇ SiO ₁₂	2.71x	2.36 ₆	1.66 ₆	29- 890
i Braunite, ordered	Mn ₁₂ Fe ₂₋₃ CaSiO ₂₄	2.72x	1.67 ₉	1.42 ₇	19- 180
o Bravoite	(Fe,Ni)S ₂	2.78x	1.68 ₈	2.49 ₅	2- 850
i Brazilianite	NaAl ₃ (PO ₄) ₂ (OH) ₄	5.05x	2.99 ₈	2.74 ₈	14- 379
c Brazilianite	NaAl ₃ (PO ₄) ₂ (OH) ₄	5.07x	2.99 ₇	2.68 ₇	27- 630
i Bredigite	α'-(Ca,Fe,Mg) ₂ SiO ₄	2.73x	2.66x	2.26 ₈	14- 12
i Breithauptite	NiSb	2.86x	2.05 ₄	1.97 ₄	2- 783
i Brenkite	Ca ₂ F ₂ CO ₃	2.79x	3.03 ₈	3.01 ₈	29- 322
* Brewsterite	(SrBaCa)Al ₂ Si ₆ O ₁₆ ·5H ₂ O	4.66x	2.92 ₈	3.27 ₄	15- 582
i Brezinaite	Cr ₃ S ₄	2.64x	5.67 ₇	2.06 ₇	24- 310
i Brianite	Na ₂ CaMg(PO ₄) ₂	2.63x	3.73 ₈	2.68 ₉	29-1192
i Briartite syn	Cu ₂ FeGeS ₄	3.06x	1.88x	1.87x	25- 282
o Brindleyite	(Ni ₂ Al)(Si,Al)O ₃ (OH) ₄	7.05x	3.53 ₈	2.36 ₂	26-1451
i Britholite-(Y)	Ca ₂ Y ₃ Si ₃ O ₁₂ (OH)	2.81x	2.75 ₉	2.73 ₈	21- 173
i Britholite, heated	(CaCeTh) ₃ (PSi) ₃ O ₁₂ (OHF)	2.84x	3.48 ₈	2.81 ₈	17- 724
o Britholite syn	(Na,Ca,Nd) ₃ (SiO ₄) ₃ (OH,F)	2.76x	3.03 ₈	1.76 ₆	11- 459
i Britholite-(La)	(CaLaCe) ₃ (SiO ₄ PO ₄) ₃ (OHF)	2.89x	2.86 ₈	3.16 ₆	13- 106
o Brochantite	Cu ₄ SO ₄ (OH) ₆	2.52x	3.90 ₉	2.68 ₅	13- 398
i Brockite	CaThLa(PO ₄) ₂ ·H ₂ O	3.03x	4.37 ₇	2.83 ₇	15- 248
* Bromargyrite	AgBr	2.89x	2.04 ₆	1.67 ₂	6- 438
* Bromellite syn	BeO	2.06x	2.34 ₉	2.19 ₆	4- 843
* Brookite	TiO ₂	3.51x	2.90 ₉	3.47 ₈	29-1360
i Brownmillerite syn	Ca ₄ Al ₂ Fe ₂ O ₁₀	2.63x	2.77 ₈	1.92 ₈	11- 124
* Brucite syn	Mg(OH) ₂	2.37x	4.77 ₉	1.79 ₆	7- 239
i Bruggenite	Ca(IO ₃) ₂ ·H ₂ O	3.05x	3.24 ₉	4.24 ₈	26-1405
i Brugnatellite	Mg ₉ FeCO ₃ (OH) ₁₃ ·4H ₂ O	7.93x	3.96 ₉	2.00 ₇	14- 365
* Brunogeierite syn	Fe ₂ GeO ₄	2.53x	1.49 ₈	2.97 ₅	25- 359
i Brushite	CaHPO ₄ ·2H ₂ O	7.62x	3.80 ₃	1.90 ₁	11- 293
* Brushite syn	CaHPO ₄ ·2H ₂ O	7.57x	4.24x	3.05 ₈	9- 77
i Buchwaldite	NaCa(PO ₄) ₂	2.72x	3.79 ₉	1.91 ₈	29-1194
* Buddingtonite	2NH ₄ AlSi ₃ O ₈ ·H ₂ O	3.81x	6.52x	3.38 ₇	17- 517
* Buergerite	NaFe ₃ Al ₆ (BO ₃) ₃ Si ₆ O ₁₈ (F) ₄	2.56x	2.95 ₆	3.96 ₅	25- 703
i Buetschliite syn	K ₂ Ca(CO ₃) ₂	2.86x	3.02 ₄	1.69 ₂	25- 626
i Bukovite	Cu ₃ Tl ₂ FeSe ₄	3.00x	2.60 ₉	1.77 ₈	25- 312
i Bukovskite	Fe ₂ (AsO ₄)(SO ₄)(OH)·7H ₂ O	9.60x	9.30x	3.90 ₇	24- 510
i Bultfonteinite	Ca ₂ SiO ₂ (OH,F) ₂	1.93x	8.12 ₆	2.92 ₆	8- 223
* Bunsenite syn	NiO	2.09x	2.41 ₉	1.48 ₆	4- 835
* Burangaite	Na ₂ Fe ₂ Al ₁₀ (PO ₄) ₈ OH ₁₂ ·4H ₂ O	11.7x	3.08 ₉	3.12 ₇	29-1190
i Burbankite syn	Na ₂ Ca ₂ Sr ₂ (CO ₃) ₃	2.63x	2.62x	3.03 ₈	26-1374
* Burkeite syn	Na ₆ CO ₃ (SO ₄) ₂	2.80x	3.53 ₈	3.80 ₈	24-1134
o Bursite	Pb ₃ Bi ₄ S ₁₁	3.48x	3.40 ₉	3.13 ₇	25- 431
* Bustamite, ferroan	(Ca,Mn) ₂ Si ₃ O ₉	3.23x	2.24 ₅	3.72 ₄	26-1066
i Bustamite syn	CaMn(SiO ₃) ₂	2.92x	1.79 ₈	3.45 ₅	27- 86
* Butlerite syn	Fe(OH)SO ₄ ·2H ₂ O	4.99x	3.17 ₅	3.60 ₁	25- 409
i Buttgenbachite	Cu ₁₉ Cl ₄ (NO ₃) ₂ (OH) ₃₂ ·2H ₂ O	7.95x	13.7x	2.30x	8- 136
* Bystromite syn	MgSb ₂ O ₆	3.32x	2.57 ₉	1.73 ₉	15- 684
* Cacoenite	Fe ₄ (PO ₄) ₃ (OH) ₃ ·12H ₂ O	23.1x	11.9x	9.10 ₁	14- 331
* Cadmoselite syn	CdSe	3.72x	2.15 ₉	3.29 ₈	8- 459
i Cafarsite	CaFeTiMn(AsO ₄)·4H ₂ O	2.83x	2.75 ₈	3.15 ₇	19- 197
i Cafetite	(Ca,Mg)(Fe,Al) ₂ Ti ₄ O ₁₉ ·4H ₂ O	7.86x	2.56 ₉	1.91 ₇	13- 551
i Cahnite	Ca ₂ BAsO ₄ (OH) ₄	3.56x	1.82 ₆	2.64 ₅	13- 158
i Calaverite	(Au,Ag)Te ₂	2.99x	2.09 ₉	2.91 ₇	7- 344
i Calciborite	CaB ₂ O ₄	3.44x	3.57 ₈	1.98 ₇	27- 67
o Calciocopiapite	CaFe ₄ (SO ₄) ₆ (OH) ₂ ·19H ₂ O	3.11x	3.03x	2.81x	27- 77
i Calciouranoite, heated	CaU ₂ O ₆ ·5H ₂ O	3.21x	1.97x	1.65x	26-1003
i Calciovolborthite	CaCuVO ₄ (OH)	2.88x	2.61x	4.15 ₈	12- 524
c Calcite	CaCO ₃	3.03x	1.87 ₃	3.85 ₃	24- 27
i Calcite, manganian	(Ca,Mn)CO ₃	2.95x	1.85 ₆	1.81 ₇	2- 714
* Calcite syn	CaCO ₃	3.04x	2.29 ₂	2.10 ₂	5- 586
i Calcium-catapleiite	CaZr(Si ₃ O ₉) ₂ ·2H ₂ O	2.96x	3.96 ₈	3.06 ₈	16- 371
o Calcjarlite	Na(Ca,Sr) ₂ Al ₂ (F,OH) ₁₆	2.96x	3.04 ₇	3.16 ₆	29-1195
i Calclacite syn	C ₂ H ₃ CaClO ₃ ·5H ₂ O	8.27x	3.24x	2.43x	12- 869
i Calcurmalite	Ca(UO ₂) ₃ (MoO ₄) ₃ (OH) ₂ ·8H ₂ O	7.80x	3.21 ₈	3.89 ₆	16- 145
* Caledonite	Cu ₂ Pb ₃ (SO ₄) ₃ CO ₃ (OH) ₆	3.14x	4.69 ₆	3.03 ₈	29- 565
i Calkinsite	(Ce,La) ₂ (CO ₃) ₃ ·4H ₂ O	6.54x	3.27 ₅	4.78 ₄	6- 76
i Callaghanite	CaCu ₄ Mg ₄ (CO ₃) ₂ (OH) ₁₄ ·2H ₂ O	7.45x	6.17x	3.87 ₉	11- 332
* Calomel syn	HgCl	3.17x	4.15 ₈	2.07 ₄	26- 312
i Calumetite	Cu(OH,Cl) ₂ ·2H ₂ O	7.50x	2.48 ₈	3.02 ₆	15- 669
i Calzirtite	CaTiZr ₃ O ₉	2.95x	1.80x	1.54 ₉	15- 121
i Canasite	(Na,K) ₄ Ca ₅ Si ₁₂ O ₃₀ (OH,F) ₄	3.08x	2.91 ₈	1.64 ₈	13- 553
i Canavesite	Mg ₂ (CO ₃)(HBO ₃) ₃ ·5H ₂ O	9.54x	8.12 ₄	4.56 ₂	29-1431
i Cancrinite	Na ₈ (AlSi) ₁₂ O ₂₄ SO ₄ ·3H ₂ O	4.83x	3.72x	3.26x	25-1500
i Cancrinite	Na ₈ (AlSi) ₁₂ O ₂₄ CO ₃ ·3H ₂ O	3.21x	4.64 ₉	3.64 ₇	25- 776

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i	Cancrinite, sulfation	$\text{Na}_8(\text{AlSi})_{12}\text{O}_{24}\text{SO}_4 \cdot 3\text{H}_2\text{O}$	1.97x	2.96 ₉	1.61 ₈	25-1499
o	Canfieldite syn	Ag_8SnS_6	3.09x	3.23 ₆	2.74 ₅	16- 390
i	Canfieldite, tellurian	$\text{Ag}_8\text{Sn}(\text{S}, \text{Te})_6$	3.14x	6.24 ₆	3.28 ₃	25- 767
i	Cannizzarite	Pb-Bi-S	3.82x	3.01 ₆	2.68 ₈	9- 357
o	Cannizzarite syn	Pb-Bi-S	3.75x	2.04 ₈	3.00 ₇	10- 455
i	Cappelenite	$\text{BaY}_6\text{B}_6\text{Si}_3\text{O}_{23}$	2.80x	3.48 ₉	1.94 ₉	27- 42
i	Caracolate	$\text{Na}_3\text{Pb}_2(\text{SO}_4)_3\text{Cl}$	2.93x	1.91 ₆	3.55 ₆	25- 706
i	Carbaborite	$\text{Ca}_2\text{Mg}(\text{CO}_3)(\text{B}_2\text{O}_3) \cdot 10\text{H}_2\text{O}$	5.63x	4.32x	3.14 ₈	17- 529
i	Carbocernaite	$(\text{Ca}, \text{Na}, \text{La}, \text{Sr})\text{CO}_3$	3.01x	2.02 ₉	1.82 ₈	14- 273
i	Carbocernaite	$((\text{Ca}, \text{Sr}, \text{Ce})_4(\text{CO}_3)_4\text{F})$	2.99x	4.81 ₅	4.05 ₃	25- 175
o	Carbonate-cyanotrichite	$\text{Cu}_4\text{Al}_2(\text{CO}_3, \text{SO}_4)(\text{OH})_{12} \cdot 2\text{H}_2\text{O}$	4.21x	10.1x	5.03 ₆	16- 365
i	Carbonate-fluorapatite	$\text{Ca}_{10}(\text{PO}_4)_5\text{CO}_3\text{F}_{1.5}(\text{OH})_{0.5}$	2.69x	2.79 ₆	2.24 ₅	21- 141
i	Carbonate-hydroxylapatite syn	$\text{Ca}_{10}(\text{PO}_4)_5(\text{CO}_3)_3(\text{OH})_2$	2.78x	2.68 ₄	3.46 ₃	19- 272
i	Carbonate-hydroxylapatite	$\text{Ca}_{10}(\text{PO}_4)_5\text{CO}_3(\text{OH})\text{F}$	2.72x	2.81 ₈	2.26 ₄	21- 145
i	Carletonite	$\text{KNa}_4\text{Ca}_4\text{Si}_8\text{O}_{18}(\text{CO}_3)_4\text{OH} \cdot \text{H}_2\text{O}$	8.35x	4.17x	2.90 ₉	25- 628
i	Carlfriesite	$\text{CaH}_4(\text{TeO}_3)_3$	3.17x	3.08 ₉	5.06 ₆	29- 333
i	Carlinitite syn	Ti_2S	3.03x	2.02 ₁	1.51 ₁	29-1344
i	Carlsbergite syn	CrN	2.07x	2.39 ₈	1.46 ₆	11- 65
i	Carminite	$\text{PbFe}_2(\text{AsO}_4)_2(\text{OH})_2$	3.20x	2.58 ₉	2.93 ₈	12- 278
*	Carnallite	$\text{KMgCl}_3 \cdot 6\text{H}_2\text{O}$	3.32x	2.93x	3.60 ₇	24- 869
i	Carnotite	$\text{K}_2(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 1-3\text{H}_2\text{O}$	6.56x	3.12 ₇	3.53 ₃	8- 317
i	Carnotite syn	$\text{K}_2(\text{UO}_2)_2\text{V}_2\text{O}_8$	6.36x	3.53 ₈	3.21 ₈	11- 338
*	Carobbiite syn	KF	2.67x	1.89 ₆	3.09 ₃	4- 726
*	Carpholite	$\text{MnAl}_2(\text{OH})_4\text{Si}_2\text{O}_6$	5.73x	5.08 ₇	2.62 ₃	19- 273
i	Carrboydite	$\text{Ni}_{14}\text{Al}_9(\text{SO}_4)_6(\text{OH})_{43} \cdot 7\text{H}_2\text{O}$	10.5x	5.25 ₈	2.55 ₇	29- 926
i	Carrollite	CuCo_2S_4	2.86x	1.67 ₈	1.83 ₆	9- 425
i	Caryinite	$(\text{CaNa})_3(\text{MnMg})_2(\text{AsO}_4)_3\text{OH}$	2.87x	2.69 ₃	3.03 ₃	12- 295
o	Caryophilite, 1M	$(\text{Mn}, \text{Mg})_3\text{Si}_2\text{O}_5(\text{OH})_4$	7.30x	2.51 ₉	2.81 ₇	19- 789
i	Cassidyite	$\text{Ca}_2\text{Ni}(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$	2.70x	3.03x	2.67 ₈	20- 228
*	Cassiterite syn	SnO_2	3.35x	2.64 ₈	1.77 ₇	21-1250
o	Castaingite	$\text{CuMo}_2\text{S}_3-x$	3.40x	3.05x	4.27 ₈	29-1421
i	Catapleite	$\text{Na}_2\text{ZrSi}_2\text{O}_9 \cdot 2\text{H}_2\text{O}$	3.94x	3.05x	2.96x	14- 297
i	Cattierite	CoS_2	2.75x	2.46 ₆	1.66 ₆	3- 772
i	Cavansite	$\text{Ca}(\text{VO})\text{Si}_4\text{O}_{10} \cdot 4\text{H}_2\text{O}$	7.96x	6.85 ₃	6.13 ₃	25- 182
i	Caysichite	$(\text{Y}, \text{Ca})_4(\text{CO}_3)_3\text{Si}_4\text{O}_{10} \cdot 4\text{H}_2\text{O}$	6.93x	3.32 ₉	4.38 ₆	26-1394
i	Cebollite	$\text{Ca}_3\text{Al}_2(\text{OH})_4\text{Si}_3\text{O}_{12}$	2.73x	2.88 ₉	2.59 ₇	16- 695
i	Celadonite, 1M	$\text{K}(\text{MgFeAl})_2(\text{SiAl})_4\text{O}_{10}(\text{OH})_2$	2.58x	4.53 ₉	3.64 ₈	17- 521
*	Celestite syn	SrSO_4	2.97x	3.30x	2.73 ₆	5- 593
*	Celsian	$\text{BaAl}_2\text{Si}_2\text{O}_8$	3.47x	3.35x	3.02x	18- 153
c	Celsian	$(\text{Ba}, \text{K})\text{AlSi}_2\text{O}_8$	3.35x	6.52 ₈	3.47 ₈	21- 812
*	Celsian syn	$\text{BaAl}_2\text{Si}_2\text{O}_8$	3.35x	2.58 ₈	3.46 ₇	19- 90
*	Cerianite syn	CeO_2	3.12x	1.91 ₅	1.63 ₄	4- 593
i	Cerite	$\text{Ca}_2\text{La}_8(\text{SiO}_4)_7(\text{OH})_3$	2.95x	1.95 ₅	3.47 ₄	11- 126
i	Cernyite	$\text{Cu}_2\text{CdSnS}_4$	3.15x	1.94 ₅	1.93 ₅	29- 537
i	Cernyite syn	$\text{Cu}_2\text{CdSnS}_4$	3.19x	1.94 ₆	1.68 ₃	26- 506
i	Cerottungstite	$(\text{Ce}, \text{Nd})(\text{WO}_3)_2(\text{OH})_3$	3.41x	2.27 ₅	6.83 ₄	25- 193
i	Ceruleite	$\text{Cu}_2\text{Al}_7(\text{OH})_{13}(\text{AsO}_4)_4 \cdot 11\text{H}_2\text{O}$	5.65x	7.30 ₈	5.93 ₇	29- 525
*	Cerussite syn	PbCO_3	3.59x	3.50 ₄	2.49 ₃	5- 417
*	Cervantite syn	Sb_2O_4	3.07x	2.94 ₃	3.45 ₄	11- 694
i	Cesarolite	$\text{PbMn}_3\text{O}_7 \cdot \text{H}_2\text{O}$	2.19x	2.09 ₈	1.76 ₅	14- 489
i	Cesbronite	$\text{Cu}_5(\text{TeO}_3)_2(\text{OH})_6 \cdot 2\text{H}_2\text{O}$	5.93x	3.49 ₉	4.89 ₇	27- 194
o	Cesium kupletskite	$\text{Cs}_3(\text{MnFe})_7(\text{TiNb})_2\text{Si}_8\text{O}_{31}$	10.4x	3.54 ₈	2.79 ₆	25- 221
*	Chabazite	$\text{Ca}_2\text{Al}_4\text{Si}_8\text{O}_{24} \cdot 12\text{H}_2\text{O}$	2.93x	4.32 ₈	9.35 ₅	19- 208
*	Chalcantite syn	$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	4.73x	3.71 ₉	3.99 ₆	11- 646
i	Chalcoalumite	$\text{CuAl}_4\text{SO}_4(\text{OH})_{12} \cdot 3\text{H}_2\text{O}$	8.92x	8.29x	4.24x	8- 142
i	Chalcoalumite	$\text{CuAl}_4\text{SO}_4(\text{OH})_{12} \cdot 3\text{H}_2\text{O}$	8.50x	4.25 ₉	4.18 ₃	25-1430
c	Chalcocite, high	Cu_2S	2.40x	3.05x	1.98 ₈	24- 57
*	Chalcocite, low syn	Cu_2S	1.98x	1.88 ₉	2.40 ₉	23- 961
i	Chalcocite syn	$\text{Cu}_{11.96}\text{S}$	2.74x	2.30 ₈	1.99 ₄	29- 578
*	Chalcocyanite syn	CuSO_4	3.55x	2.61x	4.19 ₈	15- 775
i	Chalcomenite	$\text{CuSeO}_3 \cdot 2\text{H}_2\text{O}$	5.39x	4.94 ₉	3.35 ₈	17- 523
*	Chalconatronite syn	$\text{Na}_2\text{Cu}(\text{CO}_3)_2 \cdot 3\text{H}_2\text{O}$	6.90x	3.68 ₉	4.18 ₈	22-1458
i	Chalcophanite	$\text{ZnMn}_3\text{O}_7 \cdot 3\text{H}_2\text{O}$	6.96x	3.50 ₆	4.08 ₃	15- 807
i	Chalcophyllite	$\text{Cu}_{18}\text{Al}_2\text{As}_3\text{S}_3\text{O}_{24}\text{OH}_{27} \cdot 36\text{H}_2\text{O}$	9.54x	4.79x	2.59x	19- 379
i	Chalcopyrite	CuFeS_2	3.03x	1.85 ₈	1.59 ₆	25- 288
i	Chalcosiderite	$\text{CuFe}_6(\text{PO}_4)_4(\text{OH})_8 \cdot 4\text{H}_2\text{O}$	3.77x	3.39 ₇	3.02 ₆	8- 127
i	Chalcostibite syn	CuS_2Sb	3.11x	3.09 ₉	2.99 ₉	24- 347
o	Chalcotallite	Cu_3TiS_2	3.07x	2.48 ₉	3.93 ₄	20- 368
i	Challantite	$\text{Fe}_{14}\text{O}_3(\text{SO}_4)_{18} \cdot 63\text{H}_2\text{O}$	9.06x	5.58 ₈	3.58 ₈	29- 714
i	Chambersite	$\text{Mn}_3\text{B}_7\text{O}_{13}\text{Cl}$	3.07x	2.74 ₆	2.08 ₆	14- 638
i	Chamosite, Ib	$(\text{FeAlMg})_6(\text{SiAl})_4\text{O}_{10}(\text{OH})_8$	7.05x	3.53 ₉	2.52 ₅	13- 29
i	Chamosite, IIb	$(\text{Fe}, \text{Al}, \text{Mg})_6(\text{SiAl})_4\text{O}_{10}(\text{OH})_8$	7.05x	3.52x	2.60 ₉	21-1227
*	Chamosite, IIb	$(\text{Fe}, \text{Al}, \text{Mg})_6(\text{SiAl})_4\text{O}_{10}(\text{OH})_8$	7.08x	14.0 ₆	3.52 ₅	7- 166
*	Changbaiite syn	PbNb_2O_6	3.03x	3.11 ₈	1.76 ₄	29- 780
i	Chantalite	$\text{CaAl}_2\text{SiO}_4(\text{OH})_4$	2.60x	4.17 ₇	3.35 ₆	29-1410
i	Chaoite	C	4.47x	4.26x	4.12 ₈	22-1069
i	Chapmanite	$\text{Fe}_2\text{SbSi}_2\text{O}_8(\text{OH})$	3.58x	7.63x	3.19 ₉	11- 135
i	Charoite	$(\text{CaKNa})_3(\text{Si}_4\text{O}_{10})(\text{OH}) \cdot \text{H}_2\text{O}$	3.35x	3.13 ₉	12.5 ₇	29-1040
o	Chavesite	$\text{Ca-Mn-PO}_4 \cdot \text{H}_2\text{O}$	3.35x	2.95 ₃	2.23 ₃	11- 373
o	Chelkarite	$\text{CaMgB}_2\text{O}_4\text{Cl}_2 \cdot 7\text{H}_2\text{O}$	3.53x	10.4 ₉	2.21 ₈	27- 72

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i	Chenevixite	$\text{Cu}_2\text{Fe}_2(\text{AsO}_4)_2(\text{OH})_4 \cdot \text{H}_2\text{O}$	3.56x	2.55 ₇	3.82 ₅	29- 553
	Cheralite	$(\text{Th}, \text{Ca}, \text{Ce})(\text{PO}_4, \text{SiO}_4)$	3.07x	3.26 ₉	2.86 ₉	8- 316
i	Chernovite, phosphatian	$\text{Y}(\text{As}, \text{P})\text{O}_4$	3.50x	1.80 ₇	2.47 ₅	26- 999
*	Chernovite syn	YAsO_4	3.52x	2.66 ₈	1.82 ₇	13- 429
i	Chernykhite, 2M ₁	$\text{Ba}_{.6}(\text{Val})_{2-3}\text{Si}_4\text{O}_{10}(\text{OH})_2$	3.33x	2.61 ₇	2.00 ₆	25- 76
i	Chervetite	$\text{Pb}_2\text{V}_2\text{O}_7$	3.44x	3.43x	3.21 ₈	18- 708
i	Chevkinite	$(\text{CaCe})_4\text{Fe}_3\text{TiSi}_4\text{O}_{22}$	3.17x	3.14x	2.71 ₁	21-1015
i	Chevkinite, heated	$(\text{CaCe})_4(\text{FeMg})_2\text{Ti}_3\text{Si}_4\text{O}_{22}$	3.20x	3.15x	2.71 ₁	11- 347
*	Chevkinite syn	$\text{Ce}_4\text{Fe}(\text{FeTi})\text{Ti}_2\text{Si}_4\text{O}_{22}$	2.72x	3.18 ₈	3.16 ₈	20- 265
i	Childrenite, manganoean	$(\text{Fe}, \text{Mn})\text{AlPO}_4(\text{OH})_2 \cdot \text{H}_2\text{O}$	2.81x	5.27 ₄	2.42 ₄	11- 621
	Chiolite syn	$\text{Na}_5\text{Al}_3\text{F}_{14}$	2.91x	5.18 ₈	2.32 ₇	2- 749
	Chkalovite syn	$\text{Na}_2\text{BeSi}_2\text{O}_6$	4.02x	2.48x	2.76 ₉	16- 387
*	Chloraluminite syn	$\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$	3.30x	3.25 ₆	2.31 ₅	8- 453
i	Chlorapatite	$\text{Ca}_5(\text{PO}_4)_3\text{Cl}$	2.85x	2.77x	1.96 ₅	24- 214
i	Chlorapatite syn	$\text{Ca}_5(\text{PO}_4)_3\text{Cl}$	2.78x	2.86 ₆	3.38 ₂	27- 74
*	Chlorargyrite syn	AgCl	2.77x	3.20 ₅	1.96 ₅	6- 480
	Chlorite-montmorillonite, regular - Montmorillonite-chlo	$\text{Na}(\text{AlMg})_7\text{Si}_8\text{O}_{20}(\text{OH})_{10} \cdot \text{H}_2\text{O}$	4.53x	15.0 ₉	4.97 ₈	12- 231
*	Chloritoid	$\text{FeAl}_2\text{SiO}_5(\text{OH})_2$	4.47x	2.96 ₉	1.58 ₈	14- 62
i	Chloritoid	$\text{FeAl}_2\text{SiO}_5(\text{OH})_2$	4.47x	2.46 ₉	2.97 ₈	14- 344
i	Chloromanganokalite syn	K_4MnCl_6	2.55x	2.69 ₉	5.90 ₅	3- 856
i	Chlorophoenicite	$(\text{Mn}, \text{Zn})_5(\text{AsO}_4)(\text{OH})_7$	2.64x	3.71 ₇	6.87 ₅	25-1159
*	Chlorothionite	$\text{K}_2\text{CuSO}_4\text{Cl}_2$	3.04x	2.19 ₇	2.85 ₄	29- 998
i	Chloroxiphite	$\text{Pb}_3\text{CuCl}_2\text{O}_2(\text{OH})_2$	2.86x	10.3 ₈	3.84 ₈	8- 112
*	Chondrodite	$(\text{Mg}, \text{Fe})_5(\text{SiO}_4)_2(\text{F}, \text{OH})_2$	2.26x	1.74 ₇	3.02 ₅	12- 527
i	Chondrodite syn	$\text{Mg}_5\text{F}_2(\text{SiO}_4)_2$	2.27x	2.25x	1.74x	14- 10
i	Christite syn	TiHgAsS_3	2.98x	3.63 ₉	3.49 ₆	29-1337
*	Chromatite syn	CaCrO_4	3.62x	2.68 ₈	1.85 ₅	8- 458
i	Chromite, aluminian	FeCr_2O_4	2.52x	1.60 ₉	1.46 ₉	3- 873
*	Chrysoberyl	BeAl_2O_4	3.24x	2.09 ₉	1.62 ₈	11- 448
	Chrysocolla	$\text{Cu}_2-x\text{Si}_2\text{O}_5(\text{OH})_3 \cdot x\text{H}_2\text{O}$	1.49x	17.9 ₈	2.90 ₈	27- 188
i	Chrysotile, 2Mc ₁	$\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$	7.31x	3.65 ₇	4.57 ₅	21- 543
*	Chrysotile, 2Mc1 syn	$\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$	4.54x	7.28 ₈	1.53 ₅	21-1262
c	Chrysotile, 2Or	$\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$	7.10x	2.33 ₈	3.55 ₇	22-1162
	Chrysotile, 2Orc1	$\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$	7.36x	3.66 ₈	1.53 ₇	25- 645
i	Chudobaite	$\text{H}(\text{Na}, \text{K})(\text{Mg}, \text{Zn})_2(\text{AsO}_4)_2 \cdot 4\text{H}_2\text{O}$	10.2x	2.98 ₉	3.44 ₈	12- 643
i	Chukhrovite	$\text{Ca}_3\text{Al}_2(\text{Y}, \text{Ce})(\text{SO}_4)\text{F}_{13} \cdot 10\text{H}_2\text{O}$	2.19x	1.83x	3.26 ₉	14- 61
i	Churchite	$(\text{Y}_{0.9}\text{La}_{0.1})\text{PO}_4 \cdot 2\text{H}_2\text{O}$	4.21x	7.50 ₉	3.02 ₉	8- 167
*	Cinnabar syn	HgS	3.36x	2.86x	1.98 ₄	6- 256
	Claringbullite	$\text{Cu}_4\text{Cl}(\text{OH})_7 \cdot 0.5\text{H}_2\text{O}$	5.75x	2.70x	2.45 ₉	29- 539
	Clarkeite	$(\text{Na}, \text{K})_2\text{U}_2\text{O}_7 \cdot x\text{H}_2\text{O}$	3.17x	3.34 ₉	5.77 ₈	8- 315
	Claudetite	As_2O_3	3.25x	3.45 ₅	2.77 ₄	15- 778
*	Clausthalite syn	PbSe	3.06x	2.17 ₇	3.54 ₃	6- 354
c	Cliffordite	UTe_3O_9	3.28x	2.84 ₃	4.02 ₃	24-1159
i	Cliffordite	UTe_3O_9	3.27x	2.84 ₈	2.01 ₈	25- 999
*	Clinobisvanite syn	BiVO_4	3.10x	3.08 ₉	3.12 ₃	14- 688
i	Clinochlore	$(\text{Mg}, \text{Al})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$	3.54x	7.07 ₉	4.72 ₈	12- 242
i	Clinochlore, chromian	$(\text{Mg}, \text{Cr})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$	7.21x	2.42x	14.5 ₉	20- 671
*	Clinochlore, chromian, IIb	$(\text{Mg}, \text{Cr})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$	2.55x	7.15 ₈	1.54 ₈	7- 160
*	Clinochlore, ferrian, IIb	$(\text{Mg}, \text{Fe}, \text{Al})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$	7.07x	14.1 ₉	3.54 ₆	7- 78
i	Clinochlore, ferroan, Ia	$(\text{Mg}, \text{Fe})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$	7.10x	3.55 ₈	14.2 ₆	16- 362
i	Clinochlore, ferroan, Ib	$(\text{Mg}, \text{Fe})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$	7.15x	3.59 ₇	14.4 ₆	16- 351
c	Clinochlore, ferroan IIb	$(\text{Mg}, \text{Cr}, \text{Fe})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$	7.12x	14.2 ₇	3.56 ₅	24- 506
i	Clinochlore, ferroan, IIb	$(\text{Mg}, \text{Fe})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$	7.07x	3.54 ₆	14.1 ₄	29- 701
i	Clinochlore, Ib	$\text{Mg}_5\text{Al}(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_8$	7.16x	4.77 ₇	14.3 ₇	29- 853
*	Clinochlore IIb	$(\text{Mg}, \text{Al}, \text{Fe})_6(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_8$	2.54x	14.0 ₈	7.08 ₈	7- 165
i	Clinochlore syn	$\text{Mg}_5\text{Al}(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_8$	3.57x	2.54x	2.01x	26-1211
i	Clinoclase	$\text{Cu}_3\text{AsO}_4(\text{OH})_3$	3.59x	3.14 ₃	7.21 ₂	12- 297
*	Clinoenstatite syn	MgSiO_3	2.87x	2.98 ₈	3.17 ₃	19- 769
i	Clinoferrosilite syn	FeSiO_3	3.03x	3.35 ₈	3.23 ₈	17- 548
i	Clinohedrite	$\text{ZnCa}(\text{OH})_2\text{SiO}_3$	2.76x	3.23 ₇	2.50 ₆	17- 214
o	Clinoholmquistite	$(\text{LiNa})_{2-3}(\text{AlMg})_3\text{Si}_8\text{O}_{24}$	7.93x	2.99x	2.70x	25- 498
i	Clinohumite	$\text{Mg}_3(\text{F}, \text{OH})_2\text{Si}_4\text{O}_{16}$	1.74x	5.02 ₇	3.70 ₇	14- 692
i	Clinohumite syn	$\text{Mg}_3\text{F}_2(\text{SiO}_4)_4$	2.26x	1.74 ₈	2.77 ₆	14- 9
i	Clinoptilolite	$(\text{NaK})_6(\text{SiAl})_{36}\text{O}_{72} \cdot 20\text{H}_2\text{O}$	3.97x	8.99 ₉	3.91 ₇	25-1349
*	Clinosafflorite syn	CoAs_2	2.54x	2.43 ₆	2.41 ₅	14- 412
*	Clinzoisite	$\text{Ca}_2(\text{Al}, \text{Fe})\text{Al}_2(\text{SiO}_4)_3\text{OH}$	2.89x	2.79 ₈	2.59 ₇	21- 128
i	Clintonite, 1M	$\text{Ca}(\text{MgAlFe})_3(\text{AlSi})_4\text{O}_{10}\text{OH}_2$	2.56x	3.21 ₇	2.11 ₇	20- 321
*	Cl-tyretskite	$\text{Ca}_2\text{B}_5\text{O}_{10}\text{Cl}(\text{OH})_2$	2.88x	2.83 ₉	2.03 ₇	29- 313
i	Coalingite	$\text{Mg}_{10}\text{Fe}_2\text{CO}_3(\text{OH})_{24} \cdot 2\text{H}_2\text{O}$	2.34x	4.20 ₈	6.05 ₅	26-1217
i	Cobalt Pentlandite	$(\text{Co}, \text{Fe}, \text{Ni})_9\text{S}_8$	3.01x	1.76x	1.92 ₈	12- 723
	Cobaltite	$(\text{Co}, \text{Fe})\text{AsS}$	2.49x	1.68x	2.27 ₉	18- 431
*	Cobaltomenite syn	$\text{CoSeO}_3 \cdot 2\text{H}_2\text{O}$	3.02x	5.72x	3.80 ₇	25- 125
	Cobalt-zippeite syn	$\text{Co}_2(\text{UO}_2)_6(\text{SO}_4)_3(\text{OH})_{10} \cdot 16\text{H}_2\text{O}$	7.21x	3.59 ₅	3.12 ₃	29- 520
	Coconinoite	$\text{Al}_2\text{Fe}_2\text{U}_2\text{P}_4\text{SO}_{24}(\text{OH})_2 \cdot 20\text{H}_2\text{O}$	11.1x	5.56 ₄	3.30 ₂	25- 16
	Coeruleolactite	$\text{CaAl}_6(\text{PO}_4)_4(\text{OH})_8 \cdot 8\text{H}_2\text{O}$	2.96x	3.70 ₉	3.48 ₅	12- 166
*	Coesite syn	SiO_2	3.09x	3.43 ₃	1.71 ₁	14- 654
*	Coffinite syn	USiO_4	3.48x	4.64x	2.64x	11- 420
o	Coffinite, yttrian	$(\text{U}, \text{Y}, \text{Ca}, \text{Mg})(\text{SiO}_4)(\text{OH})_4$	2.90x	1.88 ₆	4.65 ₄	17- 460
	Cohenite syn	Fe_3C	2.01x	2.06 ₇	2.38 ₇	23-1113
*	Colemanite	$\text{Ca}_2\text{B}_6\text{O}_{11} \cdot 5\text{H}_2\text{O}$	3.13x	5.64 ₅	3.85 ₅	6- 333

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i	Collinsite	$\text{Ca}_2\text{Mg}(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$	3.04x	2.68 ₉	2.71 ₈	26-1063
i	Collinsite, zincian	$\text{Ca}_2(\text{Mg},\text{Zn})(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$	2.69x	3.13 ₈	3.04 ₈	27- 83
i	Coloradoite	HgTe	3.74x	2.29 ₉	1.95 ₇	8- 26
*	Columbite, tantalian	$(\text{Fe},\text{Mn})(\text{Nb},\text{Ta})_2\text{O}_6$	2.96x	3.66 ₅	1.72 ₂	16- 337
i	Colusite	$\text{Cu}_2(\text{As},\text{Sn},\text{V})\text{S}_4$	3.07x	1.88 ₆	1.60 ₄	9- 10
*	Combeite	$\text{Na}_4(\text{CaAl})_3\text{Si}_6\text{O}_{16}(\text{OH})_2$	2.66x	2.61 ₈	3.30 ₇	25- 800
i	Compreignacite	$\text{K}_2(\text{UO}_2)_6(\text{OH})_{14} \cdot 4\text{H}_2\text{O}$	7.40x	3.53 ₈	3.19 ₈	17- 167
i	Congolite	$\text{Fe}_3\text{B}_7\text{O}_{13}\text{Cl}$	2.73x	3.05 ₈	2.06 ₆	25- 2
i	Conichalcite	$\text{CaCuAsO}_4(\text{OH})$	2.84x	3.12 ₉	2.59 ₅	11- 306
i	Connellite	$\text{Cu}_{19}\text{Cl}_4\text{SO}_4(\text{OH})_{32} \cdot 2\text{H}_2\text{O}$	8.00g	13.7x	2.29x	8- 135
i	Cookeite, la	$\text{LiAl}_4\text{Si}_3\text{AlO}_{10}(\text{OH})_8$	2.32x	4.70 ₉	3.52 ₉	16- 363
c	Cooperite	PtS	3.02x	1.91 ₃	3.05 ₂	26-1302
i	Cooperite syn	PtS	3.02x	1.91 ₄	1.51 ₄	18- 972
*	Copper syn	Cu	2.09x	1.81 ₅	1.28 ₂	4- 836
w	Coquimbite	$\text{Fe}_2(\text{SO}_4)_3 \cdot 9\text{H}_2\text{O}$	8.26x	2.76 ₈	5.45 ₇	6- 40
*	Corderoite syn	$\text{Hg}_2\text{S}_2\text{Cl}_2$	3.62x	2.57 ₇	1.75 ₆	20- 737
*	Cordierite	$\text{Mg}_2\text{Al}_4\text{Si}_5\text{O}_{18}$	3.13x	8.54 ₈	8.45 ₈	12- 303
i	Cordierite, ferroan	$(\text{Mg},\text{Fe})_2\text{Al}_4\text{Si}_5\text{O}_{18}$	8.58x	3.38 ₉	3.04 ₉	9- 472
*	Cordierite syn	$\text{Mg}_2\text{Al}_4\text{Si}_5\text{O}_{18}$	8.45x	8.52x	3.04 ₇	13- 294
i	Cordylite	$\text{BaCe}_2(\text{CO}_3)_3\text{F}_2$	3.19x	3.51 ₉	4.34 ₈	27- 34
i	Corkite	$\text{PbFe}_3(\text{PO}_4)_3(\text{SO}_4)(\text{OH})_6$	3.03x	5.86 ₇	2.24 ₆	17- 471
i	Cornetite	$\text{Cu}_3\text{PO}_4(\text{OH})_3$	3.04x	4.29 ₉	3.17 ₈	9- 495
i	Cornubite	$\text{Cu}_5(\text{AsO}_4)_2(\text{OH})_4$	4.72x	2.56x	2.49x	12- 288
i	Cornwallite	$\text{Cu}_5(\text{AsO}_4)_2(\text{OH})_4$	3.22x	3.53 ₉	3.10 ₉	12- 287
i	Coronadite	$\text{MnPbMn}_6\text{O}_{14}$	3.10x	3.47 ₆	1.54 ₅	7- 361
i	Corrensite	$(\text{MgFe})_9(\text{SiAl})_8\text{O}_{20}\text{OH}_{10} \cdot \text{H}_2\text{O}$	14.0x	7.08 ₆	3.53 ₈	19- 764
*	Corundum syn	Al_2O_3	2.09x	2.55 ₉	1.60 ₈	10- 173
i	Corvusite	$\text{V}_7\text{O}_{17} \cdot \text{xH}_2\text{O}$	1.80x	2.28 ₇	3.11 ₅	15- 247
*	Cosalite	$\text{Pb}_2\text{Bi}_2\text{S}_5$	3.44x	2.81 ₃	3.37 ₅	13- 502
*	Costibite	CoSbS	2.60x	2.50 ₉	1.91 ₈	22-1082
*	Cotunnite syn	PbCl_2	3.58x	3.89 ₉	2.78 ₆	26-1150
i	Coulsonite	FeV_2O_4	2.50x	2.07 ₈	2.93 ₆	15- 122
w	Covellite syn	CuS	2.81x	1.90 ₈	3.05 ₇	6- 464
i	Cowlesite	$\text{CaAl}_2\text{Si}_3\text{O}_{10} \cdot 5-6\text{H}_2\text{O}$	15.2x	3.81 ₄	2.96 ₄	29- 286
i	Crandallite	$\text{CaAl}_3(\text{PO}_4)_2(\text{OH})_5 \cdot \text{H}_2\text{O}$	2.94x	2.98 ₅	2.16 ₄	25-1457
i	Crandallite	$\text{CaAl}_3(\text{PO}_4)_2(\text{OH})_5 \cdot \text{H}_2\text{O}$	2.93x	5.70 ₈	1.89 ₈	25- 119
i	Crandallite	$\text{Ca}_2\text{Al}_7(\text{PO}_4)_3(\text{OH})_{16} \cdot 3\text{H}_2\text{O}$	2.97x	2.18 ₅	5.75 ₄	16- 162
i	Creaseyite	$\text{Cu}_2\text{Pb}_2\text{Fe}_2\text{Si}_5\text{O}_{17} \cdot 6\text{H}_2\text{O}$	10.7x	6.02 ₅	4.07 ₅	29- 566
i	Crednerite	CuMnO_2	2.71x	2.42x	2.85 ₈	18- 448
i	Creedite	$\text{Ca}_3\text{Al}_2(\text{SO}_4)\text{F}_{10} \cdot 2\text{H}_2\text{O}$	3.48x	7.30 ₉	6.90 ₉	8- 72
i	Crichtonite	$(\text{Sr},\text{La})(\text{Ti},\text{Fe})_2\text{O}_{38}$	3.39x	2.88x	2.13x	22-1121
*	Cristobalite, low syn	SiO_2	4.05x	2.49 ₂	2.84 ₁	11- 695
w	Crocoite syn	PbCrO_4	3.28x	3.03 ₇	3.48 ₆	8- 209
*	Cronstedtite, 1M	$\text{Fe}_3(\text{Si},\text{Fe})_2\text{O}_5(\text{OH})_4$	7.09x	3.54 ₉	2.72 ₅	17- 470
i	Crookesite	$(\text{Cu},\text{Ti},\text{Ag})_2\text{Se}$	3.30x	2.60x	3.01 ₈	6- 280
*	Crossite	$\text{Na}_2(\text{FeMg})_3(\text{SiAl})_8\text{O}_{22}\text{OH}_2$	8.31x	3.08 ₈	2.71 ₄	20- 376
*	Crossite	$\text{Na}_2(\text{FeMg})_3(\text{SiAl})_8\text{O}_{22}\text{OH}_2$	8.44x	3.15 ₉	2.73 ₃	20- 470
*	Cryolite syn	Na_3AlF_6	2.75x	1.94x	3.89 ₇	25- 772
*	Cryolithionite	$\text{Li}_3\text{Na}_3\text{Al}_2\text{F}_{12}$	4.28x	3.03 ₆	1.97 ₆	22- 416
*	Cryptohalite syn	$(\text{NH}_4)_2\text{SiF}_6$	4.84x	2.42 ₅	2.10 ₄	7- 13
i	Cryptomelane	$\text{KMn}_8\text{O}_{16}$	2.40x	3.11 ₈	1.65 ₈	4- 778
i	Cryptomelane	$\text{KMn}_8\text{O}_{16}$	2.39x	6.90 ₉	4.90 ₈	20- 908
i	Cubanite	CuFe_2S_3	3.22x	1.87 ₈	1.75 ₇	9- 324
c	Cubanite	CuFe_2S_3	3.21x	3.49 ₇	3.23 ₃	24- 213
i	Cumengeite syn	$\text{Pb}_4\text{Cu}_4\text{Cl}_8(\text{OH})_8 \cdot \text{H}_2\text{O}$	2.37x	4.83 ₉	2.66 ₈	27- 174
*	Cummingtonite	$(\text{Fe},\text{Mg})_7\text{Si}_8\text{O}_{22}(\text{OH})_2$	8.30x	3.06 ₉	3.26 ₈	17- 726
*	Cuprite syn	Cu_2O	2.47x	2.14 ₄	1.51 ₃	5- 667
i	Cuprobismutite syn	$\text{Cu}_4\text{Bi}_7\text{S}_{12}$	3.08x	2.72 ₆	3.62 ₅	29- 536
i	Cuprocopiapite	$\text{CuFe}_4(\text{SO}_4)_6(\text{OH})_2 \cdot 20\text{H}_2\text{O}$	3.56x	8.81 ₈	5.82 ₅	19- 394
*	Cuprorivaite syn	$\text{CaCuSi}_4\text{O}_{10}$	3.29x	3.78 ₉	3.00 ₉	12- 512
i	Cuprosklodowskite	$\text{Cu}(\text{UO}_2)_2(\text{SiO}_3\text{OH})_2 \cdot 6\text{H}_2\text{O}$	8.18x	4.09 ₉	2.97 ₈	8- 290
i	Cuprosklodowskite	$\text{Cu}(\text{UO}_2)_2(\text{SiO}_3\text{OH})_2 \cdot 6\text{H}_2\text{O}$	8.16x	4.82 ₉	6.06 ₇	19- 413
i	Cuprospinel	CuFe_2O_4	2.52x	1.48 ₆	2.96 ₅	25- 283
i	Cuprostibite	$\text{Cu}_2(\text{Sb},\text{Ti})$	2.07x	2.56 ₅	2.82 ₄	22- 601
i	Cuprotungstite	$\text{Cu}_2\text{WO}_4(\text{OH})_2$	2.53x	1.73 ₉	3.93 ₈	25- 317
i	Curienite	$\text{Pb}(\text{UO}_2)_2\text{V}_2\text{O}_8 \cdot 5\text{H}_2\text{O}$	8.19x	3.01x	4.10 ₈	22- 402
i	Curite	$\text{Pb}_2\text{U}_3\text{O}_{17} \cdot 4\text{H}_2\text{O}$	6.23x	3.14 ₈	3.96 ₇	14- 267
*	Cuspidine	$\text{Ca}_4\text{F}_2\text{Si}_2\text{O}_7$	3.06x	2.94 ₄	3.26 ₃	13- 410
*	Cyanochroite syn	$\text{K}_2\text{Cu}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$	3.70x	4.21 ₈	4.09 ₆	17- 137
o	Cyanotrichite	$\text{Cu}_4\text{Al}_2\text{SO}_4(\text{OH})_{12} \cdot 2\text{H}_2\text{O}$	10.2x	3.88 ₉	5.26 ₉	11- 131
	Cyclowollastonite, 3Tr syn	CaSiO_3	3.24x	3.22x	1.97x	19- 248
i	Cylindrite	$\text{FePb}_3\text{Sn}_4\text{Sb}_2\text{S}_{14}$	3.85x	2.89x	3.90 ₉	27- 246
i	Cymrite	$\text{BaAl}_2\text{Si}_2\text{O}_8 \cdot \text{H}_2\text{O}$	2.96x	3.96 ₉	2.67 ₇	17- 507
i	Cyrilovite	$\text{NaFe}_3(\text{PO}_4)_2(\text{OH})_4 \cdot 2\text{H}_2\text{O}$	4.85x	3.19 ₈	2.66 ₄	11- 329
*	Dachiardite	$(\text{CaNaK})_4(\text{SiAl})_{24}\text{O}_{46} \cdot 13\text{H}_2\text{O}$	3.45x	3.20x	1.87 ₈	18- 467
*	Dachiardite	$\text{Na}_4\text{Al}_4\text{Si}_{20}\text{O}_{48} \cdot 13.43\text{H}_2\text{O}$	8.84x	4.88x	3.45 ₉	29-1038
*	Dadsonite	$\text{Pb}_{11}\text{Sb}_{12}\text{S}_{29}$	3.38x	3.78 ₇	2.84 ₇	21- 942
*	Dalyite syn	$\text{K}_2\text{ZrSi}_6\text{O}_{15}$	3.34x	2.62x	3.08 ₈	23-1376
i	Danalite	$(\text{Fe},\text{Mn})_4\text{Be}_3\text{Si}_3\text{O}_{12}\text{S}$	3.35x	1.93 ₇	2.19 ₅	11- 491
*	Danburite	$\text{CaB}_2\text{Si}_2\text{O}_8$	3.57x	2.96 ₈	2.74 ₇	29- 304

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*	Dannemorite	$(\text{Fe}, \text{Mg}, \text{Mn})_2\text{Si}_6\text{O}_{22}(\text{OH})_2$	8.40x	3.08 ₆	3.28 ₂	23- 302
i	D'Ansite syn	$\text{Na}_{21}\text{MgCl}_3(\text{SO}_4)_{10}$	2.81x	3.39 ₉	4.25 ₇	12- 196
o	Daomanite	$(\text{Cu}, \text{Pt})_2\text{As}_2\text{S}_2$	3.01x	1.84x	7.32 ₇	29- 573
o	Darapsite	$\text{LiKNa}_2\text{MnZnZrSi}_{12}\text{O}_{30}$	3.26x	2.93 ₇	7.09 ₆	29- 825
*	Darapskite syn	$\text{Na}_3(\text{NO}_3)(\text{SO}_4)\cdot\text{H}_2\text{O}$	10.3x	3.46 ₄	2.87 ₃	23-1408
*	Datolite	$\text{CaBSiO}_4(\text{OH})$	3.11x	2.86 ₇	2.19 ₆	11- 70
i	Daubreelite syn	FeCr_2S_4	3.01x	1.77x	3.53 ₈	4- 651
i	Davidite, heated	$(\text{Fe}, \text{Ce}, \text{U})_2(\text{Ti}, \text{Fe})_5\text{O}_{12}$	2.90x	3.42 ₇	2.85 ₅	13- 505
o	Davidite, heated	$(\text{Fe}, \text{Ce}, \text{U})_2(\text{Ti}, \text{Fe})_5\text{O}_{12}$	1.68x	3.22 ₈	2.48 ₆	8- 305
	Davidite, heated	$(\text{Fe}, \text{Ce}, \text{U})_2(\text{Ti}, \text{Fe})_5\text{O}_{12}$	1.70x	1.69x	1.44 ₉	8- 291
*	Davreuxite	$\text{Mn}_2\text{Al}_{12}\text{Si}_2\text{O}_{31}(\text{OH})_6$	3.51x	4.29 ₇	2.87 ₇	29- 883
i	Davyne	$(\text{NaCaK})_8(\text{SiAl})_{12}\text{O}_{24}\text{Cl}_3$	4.80x	3.67x	3.28x	20- 379
i	Dawsonite	$\text{NaAlCO}_3(\text{OH})_2$	5.67x	2.78 ₉	2.60 ₇	19-1175
o	Dayingite	$\text{Cu}(\text{Co}, \text{Pt})_2\text{S}_4$	2.44x	1.87 ₉	5.71 ₈	29- 541
*	Deerite	$\text{Fe}_6(\text{Fe}, \text{Al})_3\text{Si}_8\text{O}_{20}(\text{OH})_3$	9.03x	3.01 ₇	2.64 ₆	19- 421
*	Delafossite	CuFeO_2	2.51x	1.51 ₄	2.86 ₄	12- 752
i	Delhayelite	$\text{K}_{10}\text{Ca}_5\text{Al}_6\text{Si}_{32}\text{O}_{80}\text{Cl}_6\text{H}_2\text{O}$	3.08x	12.3 ₄	6.16 ₃	12- 286
*	Dellaite syn	$\text{Ca}_6(\text{SiO}_4)(\text{Si}_2\text{O}_7)(\text{OH})_2$	2.82x	2.55 ₈	2.81 ₇	29- 376
i	Delrioite	$\text{CaSrV}_2\text{O}_6(\text{OH})_2\cdot 3\text{H}_2\text{O}$	6.53x	3.54 ₈	4.39 ₆	22- 528
i	Demesmaekerite	$\text{Pb}_2\text{Cu}_5\text{U}_2\text{Se}_6\text{O}_{22}(\text{OH})_6\cdot 2\text{H}_2\text{O}$	2.97x	5.42 ₈	5.89 ₆	18- 692
i	Denningite	$(\text{Mn}, \text{Ca}, \text{Zn})\text{Te}_2\text{O}_3$	4.42x	3.38 ₈	3.12 ₇	15- 129
i	Derriksite	$\text{Cu}_4(\text{UO}_2)(\text{SeO}_3)_2(\text{OH})_6\cdot \text{H}_2\text{O}$	4.78x	4.07 ₈	3.75 ₈	25- 319
i	Descloizite	$(\text{Zn}, \text{Cu})\text{PbVO}_4(\text{OH})$	3.23x	5.12 ₈	2.90 ₈	12- 537
i	Descloizite, cuprian	$(\text{Zn}, \text{Cu})\text{PbVO}_4(\text{OH})$	1.64x	3.13 ₈	2.86 ₈	13- 240
i	Despujolsite	$\text{Ca}_3\text{Mn}(\text{SO}_4)_2(\text{OH})_6\cdot 3\text{H}_2\text{O}$	3.34x	4.26 ₈	2.13 ₈	20- 226
i	Devilline	$\text{Cu}_4\text{Co}(\text{SO}_4)_2(\text{OH})_6\cdot 3\text{H}_2\text{O}$	10.2x	5.08 ₈	3.39 ₈	22- 231
i	Diaboleite syn	$\text{Pb}_2\text{CuCl}_2(\text{OH})_4$	5.50x	2.28x	3.28 ₈	21- 468
i	Diadochite	$\text{Fe}_2(\text{PO}_4)(\text{SO}_4)(\text{OH})\cdot 5\text{H}_2\text{O}$	3.91x	2.93x	8.22 ₈	24- 528
	Diadochite	$\text{Fe}_2(\text{PO}_4)(\text{SO}_4)(\text{OH})\cdot 5\text{H}_2\text{O}$	4.35x	8.30 ₉	8.70 ₈	12- 209
*	Diamond, 3C	C	2.06x	1.26 ₃	1.08 ₂	6- 675
i	Diaphorite	$\text{Ag}_3\text{Pb}_2\text{Sb}_3\text{S}_8$	3.30x	2.81 ₈	2.95 ₄	9- 126
*	Diaspore	$\beta\text{-Al}_2\text{O}_3\cdot \text{H}_2\text{O}$	3.99x	2.32 ₆	2.13 ₃	5- 355
i	Dickite 2M ₁	$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$	7.15x	3.58x	2.33 ₉	10- 446
i	Dietrichite	$\text{ZnAl}_2(\text{SO}_4)_4\cdot 22\text{H}_2\text{O}$	4.33x	3.52x	4.84 ₄	25-1173
i	Dietzeite	$\text{Ca}_2(\text{CrO}_4)(\text{IO}_3)_2$	3.48x	3.13x	3.61 ₉	25- 132
c	Digenite, high	$\text{Cu}_{7-2}\text{S}_4$	1.97x	2.79 ₇	3.22 ₄	24- 61
c	Digenite, low syn	Cu_9S_4	1.96x	2.95 ₃	3.20 ₃	26- 476
i	Digenite syn	$\text{Cu}_{11-800}\text{S}$	1.97x	2.78 ₅	3.21 ₄	23- 962
i	Dimorphite I	As_4S_3	5.16x	3.12 ₆	6.27 ₃	26- 125
i	Dimorphite II	As_4S_3	4.89x	2.14 ₃	1.62 ₃	26- 126
*	Diopside	$\text{CaMg}(\text{SiO}_3)_2$	2.99x	2.53 ₄	2.89 ₃	11- 654
o	Diopside, manganoan	$(\text{Ca}, \text{Mn})(\text{Mg}, \text{Fe}, \text{Mn})\text{Si}_2\text{O}_6$	2.98x	2.91 ₈	2.52 ₇	22- 534
*	Diopside	$\text{CuSiO}_2(\text{OH})_2$	2.60g	7.28x	2.12 ₈	7- 172
	Dittmarite	$\text{NH}_4\text{MgPO}_4\cdot \text{H}_2\text{O}$	8.77x	2.80 ₅	2.92 ₄	20- 663
i	Dixenite	$\text{Mn}_{13}(\text{AsO}_3)_6(\text{SiO}_4)_2(\text{OH})_8$	2.92x	4.10 ₉	2.96 ₈	19- 426
i	Djerfisherite	$\text{K}_3\text{Cu}(\text{Fe}, \text{Ni})_{12}\text{S}_{14}$	1.83x	2.99 ₇	2.37 ₆	18-1007
i	Djerfisherite	$\text{K}_3\text{Cu}_3(\text{Fe}, \text{Ni})_{11}\text{S}_{14}$	1.84x	3.33 ₇	3.17 ₇	25- 635
*	Djurleite syn	Cu_{1-93}S	1.87x	1.96x	2.39 ₉	23- 959
*	Dolerophanite	$\text{Cu}_2\text{O}(\text{SO}_4)$	3.62x	6.44 ₃	2.62 ₄	13- 189
*	Dolomite	$\text{CaMg}(\text{CO}_3)_2$	2.89x	2.19 ₃	1.79 ₃	11- 78
i	Doloresite	$\text{H}_8\text{V}_8\text{O}_{16}$	4.70x	3.83 ₃	2.45 ₃	11- 368
i	Domeykite	Cu_3As	2.05x	1.89 ₇	1.97 ₅	9- 333
i	Donathite	$(\text{Fe}, \text{Mg})(\text{Cr}, \text{Fe})_2\text{O}_4$	2.51x	2.09 ₆	4.83 ₃	22- 349
*	Donnayite	$\text{NaCaSr}_3\text{Y}(\text{CO}_3)_6\cdot 3\text{H}_2\text{O}$	2.84x	4.37 ₇	6.10 ₄	29-1445
*	Downeyite syn	SeO_2	3.01x	3.74 ₆	4.18 ₆	22-1314
*	Dravite	$\text{NaMg}_3\text{Al}_6(\text{BO}_3)_3\text{Si}_6\text{O}_{18}(\text{OH})_4$	2.58x	3.99 ₉	2.96 ₉	14- 76
i	Dravite, chromian	$\text{Na}_{-8}\text{Mg}_3\text{Al}_6\text{B}_3\text{O}_9\text{Si}_6\text{O}_{18}(\text{OH})_4$	3.49x	2.97 ₈	2.58 ₃	25-1307
i	Dresserite	$\text{Ba}_2\text{Al}_4(\text{CO}_3)_4(\text{OH})_6\cdot 3\text{H}_2\text{O}$	8.09x	6.23 ₆	3.66 ₃	20- 617
i	Drysdallite	MoSe_2	2.37x	6.46 ₈	2.85 ₆	29- 914
i	Dufrenite	$\text{Fe}_3(\text{PO}_4)_3(\text{OH})_5\cdot 2\text{H}_2\text{O}$	3.17x	5.05 ₉	3.42 ₉	8- 155
i	Dufrenite	$\text{CaFe}_{12}(\text{PO}_4)_8(\text{OH})_{12}\cdot 4\text{H}_2\text{O}$	3.15x	12.0 ₉	5.00 ₉	22-1143
i	Dufrenoyite	$\text{Pb}_2\text{As}_2\text{S}_5$	3.74x	3.00 ₉	2.70 ₈	10- 453
i	Duftite	$\text{PbCuAsO}_4(\text{OH})$	3.26x	2.85 ₈	2.65 ₈	14- 169
i	Dugganite	$\text{Pb}_2\text{Zn}_3(\text{TeO}_6)(\text{AsO}_4)(\text{OH})_3$	3.28x	3.00 ₈	2.45 ₆	29-1429
i	Dumontite	$\text{Pb}_2(\text{UO}_2)_3(\text{PO}_4)_2(\text{OH})_4\cdot 3\text{H}_2\text{O}$	4.27x	3.00 ₉	2.95 ₉	12- 158
*	Dumortierite	$(\text{Al}, \text{Fe})_2\text{B}_2\text{O}_3(\text{SiO}_4)_3\text{O}_3$	2.55x	5.89 ₉	5.84 ₉	7- 71
i	Dundasite	$\text{Pb}_2\text{Al}_4(\text{CO}_3)_4(\text{OH})_8\cdot 3\text{H}_2\text{O}$	7.91x	3.60 ₈	3.09 ₆	21- 936
o	Durangite syn	$\text{NaAlAsO}_4\text{F}$	1.80x	1.50x	4.80 ₈	25- 770
i	Duranusite	As_4S	2.92x	5.62 ₆	5.04 ₉	25-1479
i	Dussertite	$\text{BaFe}_3(\text{AsO}_4)_2(\text{OH})_5\cdot \text{H}_2\text{O}$	3.13x	2.32 ₆	2.00 ₆	19- 112
i	Duttonite	$\text{VO}(\text{OH})_2$	4.40x	3.61 ₉	1.84 ₂	10- 377
i	Dypingite	$\text{Mg}_3(\text{CO}_3)_4(\text{OH})_2\cdot 5\text{H}_2\text{O}$	10.6x	5.86 ₉	6.34 ₆	23-1218
i	Dyscrasite	Ag_3Sb	2.29x	2.42 ₄	1.37 ₄	10- 452
i	Dzhalindite syn	$\text{In}(\text{OH})_3$	3.99x	2.82 ₉	1.78 ₉	16- 161
i	Eakerite	$\text{Ca}_2\text{SnAl}_2\text{Si}_6\text{O}_{18}(\text{OH})_2\cdot 2\text{H}_2\text{O}$	4.81x	5.26 ₉	7.31 ₈	24- 218
i	Earlandite syn	$\text{Ca}_3(\text{C}_6\text{H}_5\text{O}_7)_2\cdot 4\text{H}_2\text{O}$	15.5x	7.70 ₅	5.20 ₄	28-2003
i	Ecdemite	$\text{Pb}_8\text{As}_2\text{O}_7\text{Cl}_4$	2.85x	3.66 ₈	2.72 ₈	23- 343
*	Eckermannite syn	$(\text{NaCa})_3(\text{MgAl})_5\text{Si}_8\text{O}_{22}(\text{OH})_2$	3.13x	2.71 ₉	8.46 ₄	23- 663
*	Eckermannite syn	$\text{Na}_3\text{Mg}_4\text{AlSi}_8\text{O}_{22}(\text{OH})_2$	3.10x	2.71 ₈	3.40 ₇	20- 386
*	Edenite	$\text{NaCa}_2\text{Mg}_5\text{AlSi}_7\text{O}_{22}(\text{OH})_2$	3.12x	8.43 ₈	3.27 ₄	23-1405

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* Edenite, sodian syn	(CaNa) ₃ Mg ₃ (SiAl) ₈ O ₂₂ (OH) ₂	3.15x	2.70 ₆	3.28 ₅	23- 664
* Edingtonite	BaAl ₂ Si ₂ O ₁₀ ·4H ₂ O	3.58x	6.51 ₈	2.74 ₈	25- 61
* Edingtonite	BaAl ₂ Si ₂ O ₁₀ ·4H ₂ O	6.51x	4.70 ₇	3.59 ₇	25- 60
* Eglestonite	Hg ₆ Cl ₃ O ₂ H	3.27x	1.89 ₆	2.54 ₅	29- 909
* Eitelite syn	Na ₂ Mg(CO ₃) ₂	2.60x	2.73 ₃	2.47 ₃	24-1227
i Ekanite	K(Na,Ca) ₂ ThSi ₈ O ₂₀	3.38x	3.32 ₆	5.30 ₅	25- 677
i Elbaite	NaLi ₃ Al ₆ (BO ₃) ₃ Si ₆ O ₁₈ (OH) ₄	2.56x	2.93 ₆	3.96 ₈	26- 964
i Ellestadite	Ca ₃ ((Si,P,S)O ₄) ₃ (OH,Cl,F)	2.86x	2.76 ₆	1.97 ₆	3- 708
* Elpasolite syn	K ₂ NaAlF ₆	2.87x	2.03 ₆	2.35 ₈	22-1235
i Elpidite syn	Na ₂ ZrSi ₆ O ₁₃ ·3H ₂ O	7.08x	3.24x	3.10 ₆	29-1294
i Elyite	CuPb ₄ (SO ₄)(OH) ₈	7.19x	7.00x	3.00 ₈	25- 293
i Embolite	Ag(Cl,Br)	2.81x	1.99 ₆	1.26 ₄	14- 255
i Embreyite	Pb ₃ (CrO ₄) ₂ (PO ₄) ₂ ·H ₂ O	3.17x	4.75 ₅	2.82 ₆	25- 436
i Emeleusite	Li ₂ Na ₄ Fe ₂ Si ₁₂ O ₃₀	4.35x	3.21 ₈	3.50 ₇	29- 832
i Emmonsite	Fe ₂ (TeO ₃) ₃ ·2H ₂ O	3.14x	2.87 ₉	2.52 ₉	7- 404
i Emplectite	CuBiSi ₂	3.05x	3.23 ₆	3.13 ₇	10- 474
i Empressite	AgTe	2.70x	2.23 ₈	3.81 ₆	16- 412
i Enargite	Cu ₃ As ₄ S ₄	3.22x	1.86 ₉	2.87 ₈	10- 436
i Englishite	K ₂ Ca ₃ Al ₆ P ₆ O ₂₀ (OH) ₁₆ ·3H ₂ O	8.94x	17.7 ₉	2.84 ₈	29-1037
i Enstatite, ferroan	(Mg,Fe)SiO ₃	2.50x	3.17 ₉	3.16 ₉	26- 876
* Enstatite, ferroan	(Mg,Fe)SiO ₃	3.15x	2.87 ₆	2.49 ₄	19- 605
i Enstatite, ordered	MgSiO ₃	3.18x	2.88 ₆	2.54 ₃	22- 714
* Enstatite syn	MgSiO ₃	2.87x	3.17 ₈	3.15 ₃	19- 768
i Eosphorite	(Mn,Fe)AlPO ₄ ·(OH) ₂ ·H ₂ O	2.83x	2.42 ₆	5.23 ₅	17- 131
i Ephesite, 2M ₁	Na ₂ Al ₂ (Al ₂ Si ₂)O ₁₀ (OH) ₂	3.20x	9.59 ₇	1.92 ₃	19-1181
i Epididymite	NaBeSi ₃ O ₇ ·OH	3.40x	3.09x	2.99x	14- 64
c Epididymite	NaBeHSi ₃ O ₈	3.09x	3.01 ₅	6.35 ₃	24- 716
* Epidote	Ca ₂ (Al,Fe) ₂ Si ₂ O ₁₂ (OH)	2.90x	2.68x	2.69 ₇	17- 514
* Epistilbite	(Ca,Na) ₄ (AlSi) ₂₄ O ₄₈ ·16H ₂ O	3.45x	8.89 ₉	3.21 ₉	19- 213
i Epistilbite	H ₃ Na ₆ Nb ₃ Si ₃ TiO ₂₄ ·2H ₂ O	6.11x	4.33x	2.72 ₈	14- 258
* Epsomite syn	MgSO ₄ ·7H ₂ O	4.21x	5.35 ₃	2.68 ₃	8- 467
i Ericaite	(Fe _{2-2.5} Mg _{0.5-0.7} Mn _{0.1-0.18})B ₇ O ₁₃ Cl	3.04x	2.06 ₇	2.72 ₆	29- 697
i Ericssonite	BaMn ₂ Fe(Si ₂ O ₈)(OH)	3.51x	10.1 ₆	2.78 ₆	29- 186
* Eriochalcite syn	CuCl ₂ ·2H ₂ O	5.44x	4.02 ₁	2.64 ₁	13- 145
* Erionite	(NaK) ₈ (SiAl) ₃₆ O ₇₂ ·23H ₂ O	11.4x	6.61 ₈	4.32 ₇	22- 854
* Erlichmanite syn	OsS ₂	3.24x	2.81 ₉	1.69 ₉	19- 882
i Ernseite	(Mn,Fe)AlPO ₄ (OH,Cl) ₂	2.83x	2.84 ₈	2.44 ₅	24- 730
* Erythrite	Co ₃ (AsO ₄) ₂ ·8H ₂ O	6.65x	1.68 ₁	3.22 ₁	11- 626
* Erythrosiderite syn	K ₂ FeCl ₃ ·H ₂ O	2.78x	5.57 ₄	2.43 ₄	29-1004
i Eskebornite	CuFeSe ₂	1.96x	3.19x	1.67 ₈	14- 312
* Eskolaite syn	Cr ₂ O ₃	2.67x	2.48x	1.67 ₉	6- 504
* Esperite	(Ca,Pb)ZnSiO ₄	3.02x	2.54 ₉	7.62 ₅	16- 373
* Esperite syn	(Ca,Pb)ZnSiO ₄	3.02x	2.55 ₉	7.64 ₈	20- 222
i Ettringite	Ca ₆ Al ₂ (SO ₄) ₃ (OH) ₁₂ ·26H ₂ O	9.67x	5.60 ₉	3.88 ₆	13- 350
* Ettringite syn	Ca ₆ Al ₂ (SO ₄) ₃ (OH) ₁₂ ·25H ₂ O	9.73x	5.61 ₈	3.88 ₅	9- 414
i Eucairite	CuAgSe	2.13x	2.62 ₇	2.88 ₅	10- 451
c Eucairite	CuAgSe	2.49x	2.63 ₆	2.89 ₅	25-1180
i Euchroite	Cu ₂ AsO ₄ (OH)·3H ₂ O	5.34x	2.83 ₉	7.37 ₈	4- 222
i Euclase	BeAlSiO ₄ (OH)	7.15x	3.22 ₅	3.84 ₄	14- 65
* Eucryptite	α-LiAlSiO ₄	3.96x	3.37 ₉	2.74 ₈	14- 667
i Eudialyte	Na ₄ Ca ₂ ZrSi ₆ O ₁₇ (OH,Cl) ₂	7.19x	5.74 ₆	2.87 ₈	8- 355
i Eudialyte-(La)	Na ₃ (Ca,La) ₂ ZrSi ₆ O ₁₇ (OH) ₂	2.82x	2.94 ₆	3.10 ₈	25- 814
i Eudidymite	NaBeSi ₃ O ₇ (OH)	3.16x	3.40 ₆	3.07 ₈	14- 201
i Eulytite syn	Bi ₄ (SiO ₄) ₃	3.20x	2.70x	4.13 ₈	13- 529
i Euxenite, heated	(Y,Ce)(Nb,Ti) ₂ O ₆	2.98x	1.82 ₄	1.72 ₄	5- 603
i Euxenite, heated	(Y,Ce)(Nb,Ti) ₂ O ₆	2.99x	3.66 ₄	2.95 ₄	9- 442
i Euxenite syn	YNbTiO ₆	3.01x	1.50 ₈	1.74 ₇	14- 643
i Eveite	Mn ₂ AsO ₄ (OH)	4.39x	3.06 ₉	5.09 ₈	22-1166
i Evenkite	C ₂ H ₄ S	4.18x	3.74 ₄	2.25 ₈	28-2004
i Eylettersite	(ThPb)Al ₃ (PO ₄ SiO ₄) ₂ (OH) ₆	2.95x	3.51 ₆	5.70 ₆	26- 991
* Excurrite	Na ₄ (B ₂ O ₇ (OH) ₃) ₂ ·4H ₂ O	6.93x	3.09 ₄	3.08 ₄	26-1370
c Excurrite	Na ₄ B ₁₀ O ₁₇ ·7H ₂ O	6.94x	3.07 ₄	4.49 ₃	20-1083
i Excurrite syn	Na ₄ B ₁₀₋₂ O ₁₇₋₃ ·7H ₂ O	6.91x	3.08 ₅	3.13 ₃	20-1084
c Fabianite	CaB ₃ O ₃ (OH)	3.96x	3.27 ₉	5.24 ₈	25-1176
* Fabianite	CaB ₃ O ₃ (OH)	3.27x	3.03 ₉	2.92 ₉	15- 631
i Faheyite	(Mn,Mg)Be ₂ Fe ₂ (PO ₄) ₄ ·6H ₂ O	5.72x	7.28 ₉	3.24 ₆	6- 109
* Fairchildite syn	K ₂ Ca(CO ₃) ₂	3.19x	2.65 ₇	2.70 ₃	21-1287
i Fairfieldite	Ca ₂ (Mn,Fe)(PO ₄) ₂ ·2H ₂ O	3.23x	6.40 ₉	3.03 ₆	10- 390
i Falcondoite	(Ni,Mg) ₄ Si ₆ O ₁₃ (OH) ₂ ·6H ₂ O	12.2x	2.53 ₄	3.33 ₃	29-1433
i Famatinite syn	Cu ₃ SbS ₄	3.07x	1.90 ₈	1.61 ₇	10- 472
* Farringtonite syn	Mg ₃ (PO ₄) ₂	3.44x	3.85 ₈	4.08 ₆	25-1373
i Fassaite	Ca(Mg,Fe,Al)(Si,Al) ₂ O ₆	2.98x	2.55x	2.50 ₇	25-1217
i Fassaite syn	Ca(Mg,Al)(Si,Al) ₂ O ₆	2.98x	2.89 ₄	3.23 ₄	25- 154
c Fassaite, titanian	Ca(Ti,Mg,Al)(Si,Al) ₂ O ₆	3.00x	2.54 ₄	2.58 ₄	25- 306
i Faujasite	Na ₂ Al ₂ Si ₄₋₇ O ₁₃₋₄ ·xH ₂ O	14.3x	5.66x	3.76x	11- 672
i Faustite	(Zn,Cu)Al ₆ (PO ₄) ₄ (OH) ₈ ·5H ₂ O	3.68x	2.89 ₈	6.70 ₇	6- 216
* Fayalite	Fe ₂ SiO ₄	2.50x	2.83 ₉	1.78 ₉	20-1139
* Fayalite, magnesian	(Fe,Mg) ₂ SiO ₄	2.81x	2.49 ₇	2.55 ₆	7- 158
i Fayalite, manganoan	(Fe,Mn) ₂ SiO ₄	2.86x	2.53 ₈	5.31 ₃	12- 220
i Federovskite	Ca ₂ (Mg,Mn) ₂ B ₄ O ₇ (OH) ₆	3.92x	2.59x	3.02 ₇	29- 347

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						File No.
	Fedorite	(CaNa) ₄ (SiAl) ₈ O ₁₈ OH ₂ ·3H ₂ O	2.93x	2.97 ₉	1.83 ₉	19- 466
	Feitknechtite syn	MnOOH	4.62x	2.64 ₅	2.36 ₂	18- 804
	Felsobanyaite	Al ₄ SO ₄ (OH) ₁₀ ·5H ₂ O	4.79x	4.64x	2.27 ₅	25-1491
o	Fenaksite	(KNa) ₄ Fe ₂ (Si ₄ O ₁₀) ₂ (OHF)	3.03x	3.50 ₇	2.46 ₇	13- 520
*	Ferberite	FeWO ₄	2.94x	4.69 ₈	3.75 ₆	21- 436
c	Ferberite	FeWO ₄	2.94x	4.75 ₅	3.75 ₄	27- 256
i	Ferdisilicite syn	FeSi ₂	1.84x	2.37 ₆	5.10 ₃	22-1113
*	Fergusonite, beta syn	YNbO ₄	3.12x	2.96x	1.90 ₈	23-1486
i	Fergusonite, beta-(Ce)	CeNbO ₄	3.24x	3.06x	1.97x	29- 402
	Fergusonite, heated	(Y,Er)(Nb,Ta,Ti)O ₄	3.12x	2.96 ₉	1.90 ₃	9- 443
i	Fermorite	Ca ₃ (PO ₄) ₃ F	2.86x	2.75 ₆	3.49 ₅	14- 215
i	Ferrierite	(NaKMg) ₂ (SiAl) ₁₈ O ₃₆ ·9H ₂ O	3.54x	3.78 ₇	9.47 ₃	22-1238
i	Ferrierite	Na ₂ MgAl ₃ Si ₁₅ O ₃₆ ·OH·9H ₂ O	9.61x	3.99 ₉	3.54 ₈	11- 429
	Ferrihydrite syn	Fe ₃ O ₇ (OH)·4H ₂ O	2.50x	2.21 ₈	1.96 ₈	29- 712
	Ferrimolybdate	Fe ₂ (MoO ₄) ₃ ·xH ₂ O	7.40x	2.29 ₆	3.33 ₅	15- 290
	Ferrimolybdate	Fe ₂ (MoO ₄) ₃ ·8H ₂ O	9.87x	8.40 ₆	6.73 ₂	13- 191
	Ferrimolybdate syn	Fe ₂ Mo ₃ ·9O ₁₄ ·7·10·5H ₂ O	10.0x	8.30x	6.75 ₉	15- 289
i	Ferrinatrite	Na ₃ Fe(SO ₄) ₃ ·3H ₂ O	7.80x	2.91 ₈	4.38 ₆	16- 937
i	Ferrisicklerite	Li _{1-x} (Fe,Mn)PO ₄	2.96x	5.01 ₇	4.33 ₄	29- 808
i	Ferritungstite	Ca ₂ Fe ₄ (WO ₄) ₇ ·9H ₂ O	5.94x	2.97x	3.10 ₉	11- 331
i	Ferri-winchite	NaCa(MgFeMn) ₅ Si ₈ O ₂₂ (OH) ₂	2.70x	8.40 ₉	2.53 ₉	20-1390
*	Ferro-actinolite	Ca ₂ Fe ₅ (Si ₈ O ₂₂)(OH) ₂	8.58x	2.73 ₄	3.16 ₄	23- 118
i	Ferroaxinite	Ca ₂ (Fe,Mn)Al ₂ BSi ₄ O ₁₅ (OH)	2.81x	3.16 ₆	3.46 ₈	27- 76
	Ferrobustamite	Ca(Fe,Ca,Mn)Si ₂ O ₆	3.27x	3.05 ₈	2.28 ₇	29- 336
	Ferrogedrite	Fe ₃ Al ₄ Si ₆ O ₂₂ (OH) ₂	8.23x	3.04 ₈	3.22 ₂	11- 253
i	Ferroglaucophane	Na ₂ (Fe,Al,Mg) ₅ Si ₈ O ₂₂ (OH) ₂	8.31x	3.06 ₈	2.76 ₃	27- 714
*	Ferro-glaucophane, aluminian	Na ₂ (Al,Fe,Mg) ₅ Si ₈ O ₂₂ (OH) ₂	3.05x	8.27 ₉	2.69 ₃	23- 679
i	Ferrohexahydrate	FeSO ₄ ·6H ₂ O	4.43x	2.97 ₇	2.93 ₇	15- 393
i	Ferropargasite syn	NaCa ₂ Fe ₂ AlSi ₆ Al ₂ O ₂₂ (OH) ₂	8.50x	3.15 ₈	2.72 ₆	26-1372
i	Ferro-richterite	Na ₂ CaFe ₃ Si ₈ O ₂₂ (OH) ₂	8.58x	2.74 ₇	3.18 ₇	26-1373
i	Ferroselite	FeSe ₂	2.57x	2.47x	1.89 ₇	21- 432
*	Ferroselite syn	FeSe ₂	2.59x	2.49 ₆	1.89 ₉	12- 291
*	Ferrucite syn	NaBF ₄	3.39x	3.41 ₉	2.31 ₄	11- 671
i	Fersilicite syn	FeSi	2.00x	1.82 ₄	1.19 ₂	22- 632
*	Fersmanite	(CaNa) ₄ (TiNb) ₂ Si ₂ O ₁₁ (FOH) ₂	3.06x	2.82 ₆	1.52 ₆	29-1446
i	Fersmite syn	CaNb ₂ O ₆	3.05x	1.54 ₇	3.75 ₆	18- 302
o	Fervanite	Fe ₄ (VO ₄) ₄ ·5H ₂ O	8.79x	6.45 ₉	3.22 ₈	27- 257
i	Fibroferrite	Fe(OH)SO ₄ ·5H ₂ O	12.1x	2.98 ₈	6.96 ₆	16- 935
i	Fiedlerite	Pb ₃ Cl ₄ (OH) ₂	3.89x	2.55x	2.81 ₈	15- 59
i	Fillowite	Ca ₄ Na ₁₁ Mn ₃₄ Fe ₈ (PO ₄) ₃₄	2.81x	3.02 ₇	2.55 ₆	18- 516
i	Finnemanite	Pb ₃ Cl(AsO ₃) ₃	3.03x	2.88 ₉	3.35 ₆	14- 187
i	Fischesserite	AuAg ₃ Se ₂	2.66x	2.23 ₈	2.04 ₈	25- 367
*	Fizelyite	(Pb,Ag) ₈ Sb ₁₁ S ₂₄	3.32x	3.29 ₆	2.94 ₆	23- 753
	Flagstaffite syn	CH ₃ (OH)C ₆ H ₉ C(CH ₃) ₂ OH·2H ₂ O	4.88x	8.72 ₈	7.16 ₈	28-2014
i	Fleischerite syn	Pb ₃ Ge(SO ₄) ₂ (OH) ₆ ·3H ₂ O	3.62x	2.64 ₉	1.89 ₉	29- 771
	Fletcherite	Cu(Ni,Co) ₂ S ₄	1.68x	1.83 ₈	2.87 ₆	29- 540
i	Flinkite	Mn ₃ (AsO ₄)(OH) ₄	4.73x	4.39x	2.66x	12- 400
i	Florencite	CeAl ₃ (PO ₄) ₂ (OH) ₆	2.93x	5.63 ₉	2.16 ₈	8- 143
i	Fluellite	Al ₂ PO ₄ F ₂ (OH)·7H ₂ O	6.48x	3.24 ₇	3.09 ₆	19- 38
*	Fluoborite	Mg ₃ (BO ₃)F ₃	4.41x	2.41x	2.12 ₉	19- 468
*	Fluoborite, hydroxyl	Mg ₃ (BO ₃)(OH,F) ₃	2.42x	4.46 ₈	2.14 ₈	15- 667
	Fluocerite syn	(Ce,La)F ₃	3.19x	2.05 ₈	2.00 ₈	2- 529
*	Fluorapatite syn	Ca ₅ F(PO ₄) ₃	2.80x	2.70 ₆	2.77 ₆	15- 876
*	Fluorapophyllite	KCa ₄ Si ₈ O ₂₀ F·8H ₂ O	7.81x	2.49 ₉	3.57 ₆	19- 82
*	Fluorite syn	CaF ₂	1.93x	3.15 ₉	1.65 ₄	4- 864
i	Fluorite, yttrian	(Ca,Y)F ₂	3.17x	1.94 ₆	1.66 ₁	21- 159
	Foggite	CaAl(PO ₄)(OH) ₂ ·H ₂ O	4.24x	2.69 ₈	3.11 ₇	29- 282
	Formanite, heated	LaTaO ₄	3.13x	2.93 ₉	1.90 ₇	26-1478
i	Fornacite	Pb ₂ CuCrO ₄ AsO ₄ (OH)	3.31x	2.98x	2.88x	15- 200
*	Forsterite	Mg ₂ SiO ₄	2.46x	3.88 ₇	2.51 ₇	7- 74
c	Forsterite	Mg ₂ SiO ₄	2.46x	2.51 ₈	3.88 ₆	21-1260
c	Forsterite, ferroan	(Mg _{0.6} Fe _{0.4}) ₂ SiO ₄	2.48x	2.79 ₈	2.53 ₇	21-1257
*	Forsterite, ferroan	(Mg _{0.64} Fe _{0.36}) ₂ SiO ₄	2.79x	2.53 ₆	2.48 ₆	7- 159
i	Foshagite syn	Ca ₄ (SiO ₃) ₃ (OH) ₂	2.95x	4.96 ₃	3.36 ₃	29- 377
i	Fourmarierite	PbU ₄ O ₁₃ ·4H ₂ O	7.20x	3.58 ₅	3.18 ₅	13- 116
	Fraipontite	(Zn,Al) ₆ (Si,Al) ₄ O ₁₀ (OH) ₈	7.00x	3.52 ₇	2.63 ₃	14- 366
i	Francevillite syn	Ba(UO ₂) ₂ V ₂ O ₈ ·5H ₂ O	8.40x	3.00x	5.20 ₆	21- 381
	Franckeite	Pb ₃ Sn ₃ Sb ₂ S ₁₄	3.44x	2.91x	2.86x	15- 25
i	Francoanellite	H ₆ K ₃ Al ₃ (PO ₄) ₁₈ ·13H ₂ O	13.8x	3.41 ₆	2.81 ₅	29- 980
*	Frankdicksonite syn	BaF ₂	3.58x	2.19 ₈	1.87 ₅	4- 452
i	Franklinite	(Zn,Mn,Fe)(Fe,Mn) ₂ O ₄	2.55x	1.50 ₈	2.99 ₇	10- 467
*	Franklinite syn	ZnFe ₂ O ₄	2.54x	2.98 ₄	1.49 ₄	22-1012
o	Freboldite	CoSe	2.05x	2.40 ₅	1.71 ₅	15- 464
i	Freibergite syn	(Cu,Ag,Zn) ₁₂ Sb _{4.4} S _{12.6}	3.05x	1.86 ₇	2.64 ₅	27- 190
i	Freieslebenite	AgPbSbS ₃	2.83x	3.48 ₈	2.98 ₇	10- 468
*	Fresnoite syn	Ba ₂ TiSi ₂ O ₈	3.08x	3.30 ₅	2.70 ₃	22- 513
i	Freudenbergite	Na ₂ Ti ₆ Fe ₂ O ₉ (OH) ₉	3.63x	1.91 ₉	3.10 ₈	17- 531
	Friedelite	(Mn,Fe) ₈ Si ₆ O ₁₅ (OH,Cl) ₁₀	2.56x	7.17 ₉	3.60 ₇	12- 250
i	Friedrichite	Cu ₅ Pb ₃ Bi ₇ S ₁₈	3.64x	3.58x	3.16x	29- 561
i	Frobergite	FeTe ₂	2.81x	2.71 ₇	2.07 ₅	14- 419

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						File No.
i	Frobergite syn	FeTe ₂	1.84x	1.57 ₉	2.79 ₈	7- 367
	Frolovite	CaB ₂ O ₄ ·2.5H ₂ O	6.08x	3.86 ₉	3.47 ₈	13- 453
i	Frondeite	MnFe ₄ (PO ₄) ₃ (OH) ₃	3.20x	3.38 ₅	1.60 ₅	8- 83
i	Froodite	Bi ₂ Pd	2.77x	1.56 ₈	2.97 ₇	11- 251
i	Froodite syn	Bi ₂ Pd	2.77x	2.20 ₈	1.55 ₇	2- 853
i	Fukalite	Ca ₄ Si ₂ O ₆ (CO ₃)(OH) ₂	2.85x	3.08 ₉	2.93 ₇	29- 308
i	Fukuchilite syn	(Fe,Cu) ₂ S ₂	2.80x	1.69 ₈	3.24 ₆	24- 365
*	Fulopite	Pb ₃ Sb ₈ S ₁₅	3.89x	3.20 ₉	2.92 ₆	22- 648
o	Furongite	Al ₂ (UO ₂)(PO ₄) ₂ (OH) ₂ ·8H ₂ O	10.2x	8.62 ₈	4.31 ₅	29- 98
i	Gabrielsonite	PbFe(AsO ₄)(OH)	3.19x	3.07x	2.71 ₄	20- 583
o	Gadolinite, heated	Y ₂ FeBe ₂ Si ₂ O ₁₀	2.70x	1.92 ₈	2.21 ₇	22- 991
o	Gadolinite, heated	Y ₂ FeBe ₂ Si ₂ O ₁₀	3.21x	3.03 ₈	2.73 ₇	22- 990
i	Gadolinite syn	Be ₂ FeY ₂ Si ₂ O ₁₀	2.82x	2.81x	4.74 ₈	26-1134
i	Gadolinite-(Ce), heated	(Ce,La,Y) ₂ FeBe ₂ Si ₂ O ₁₀	2.88x	4.81 ₉	2.60 ₈	29-1409
i	Gagarinite	(Y,Ca,Na)F ₂	1.72x	2.09 ₉	3.00 ₅	15- 69
c	Gageite	(Mn,Mg) ₇ Si ₂ O ₇ (OH) ₈	3.42x	2.61 ₉	2.66 ₆	25-1201
i	Gageite	(Mn,Mg) ₇ Si ₂ O ₇ (OH) ₈	6.87x	2.76 ₈	2.71 ₈	20- 723
*	Gahnite syn	ZnAl ₂ O ₄	2.44x	2.86 ₈	1.43 ₄	5- 669
i	Gaidonnayite	Na ₂ ZrSi ₃ O ₈ ·2H ₂ O	3.12x	5.93 ₈	5.84 ₈	26-1387
*	Galaxite syn	MnAl ₂ O ₄	2.47x	2.90 ₈	1.58 ₅	29- 880
*	Galaxite syn	MnAl ₂ O ₄	2.49x	2.92 ₆	1.46 ₅	10- 310
*	Galeite	Na ₁₃ (SO ₄) ₅ F ₄ Cl	2.79x	3.52 ₈	3.68 ₇	15- 651
*	Galena syn	PbS	2.97x	3.43 ₈	2.10 ₆	5- 592
*	Galenobismutite syn	PbBi ₂ S ₄	3.47x	2.05 ₅	2.04 ₅	20- 571
i	Galkhaite	HgAs ₂ S ₂	3.01x	2.78 ₈	4.27 ₇	25- 556
i	Gallite syn	CuGaS ₂	3.07x	1.88 ₉	1.61 ₉	6- 358
i	Ganomolite	Ca ₄ Pb ₄ (Si ₂ O ₇) ₃ (OH) ₂	3.06x	3.53 ₉	3.38 ₈	25- 150
i	Ganophyllite	(NaK)Mn ₅ (SiAl) ₆ O ₁₃ (OH) ₄	12.5x	3.14 ₃	2.70 ₁	21- 359
i	Garrelsite	NaBa ₃ Si ₂ B ₇ O ₁₆ (OH) ₄	3.05x	3.64 ₈	2.03 ₆	26-1369
c	Garrelsite syn	NaBa ₃ Si ₂ B ₇ O ₁₆ (OH) ₄	3.04x	3.07 ₈	3.62 ₇	29-1171
i	Garronite	Na ₂ Ca ₃ Al ₁₂ Si ₂₀ O ₆₄ ·27H ₂ O	4.12x	3.14x	2.66x	16- 148
i	Garronite syn	Ca ₃ (Si,Al) ₁₄ O ₃₂ ·13H ₂ O	3.14x	7.13 ₈	4.15 ₇	16- 905
i	Gaspeite, magnesian	(Ni _{0.49} Mg _{0.43} Fe _{0.08})CO ₃	2.74x	1.69 ₅	3.54 ₄	23- 437
*	Gaspeite syn	NiCO ₃	2.71x	3.51 ₅	1.68 ₅	12- 771
*	Gatumbaite	CaAl ₂ (PO ₄) ₂ (OH) ₂ ·H ₂ O	4.21x	2.24x	1.73 ₈	29- 283
i	Gaudefroyite	Ca ₄ Mn(BO ₃) ₃ (CO ₃)(O,OH) ₃	2.95x	2.62x	2.46x	17- 154
*	Gaylussite	Na ₂ Ca(CO ₃) ₂ ·5H ₂ O	3.21x	2.64x	6.41x	21- 343
i	Gearksutite	CaAl(F,OH) ₃ ·H ₂ O	4.55x	3.15 ₈	2.28 ₈	5- 283
i	Gedrite	(Fe,Mg,Al) ₇ Al ₂ Si ₈ O ₂₂ (OH) ₂	3.06x	8.27 ₈	3.23 ₇	13- 506
*	Gehlenite	Ca ₂ Al(Al,Si) ₂ O ₇	2.86x	1.93 ₆	1.82 ₆	25- 123
*	Gehlenite syn	Ca ₂ Al ₂ SiO ₇	2.85x	1.75 ₄	3.07 ₃	20- 199
*	Geikielite syn	MgTiO ₃	2.72x	2.22 ₇	2.53 ₆	6- 494
i	Genkinite	(Pt,Pd) ₄ Sb ₃	2.27x	3.02 ₉	1.93 ₆	29- 133
i	Genthelvitite	Zn ₄ Be ₃ (SiO ₄) ₃ S	3.32x	1.92 ₈	2.17 ₇	29- 224
i	Geocronite	Pb ₂₇ Sb ₈ As ₄ S ₄₃	3.54x	3.06 ₉	2.89 ₉	8- 94
i	Gerhardtite	Cu ₂ (OH) ₃ NO ₃	6.91x	2.62 ₈	2.31 ₈	14- 687
o	Germanite	Cu ₃ (Ge,Fe) ₂ S ₄	3.05x	1.87 ₈	1.60 ₇	10- 469
i	Gersdorffite, antimonian, low	Ni(As,Sb)S	2.59x	1.74 ₈	2.88 ₆	9- 336
i	Gersdorffite, cobaltian, low	(Ni,Co)AsS	2.84x	2.54 ₇	2.32 ₄	20- 778
*	Gersdorffite, high syn	NiAsS	2.55x	2.33 ₉	1.72 ₈	12- 705
c	Gersdorffite, low	NiAsS	2.54x	2.84 ₇	2.32 ₆	24- 519
o	Gerstleyite	(Na,Li) ₄ As ₂ Sb ₈ S ₁₇ ·6H ₂ O	11.9x	3.05 ₉	5.64 ₇	11- 367
*	Gerstmannite	(Mg,Mn) ₂ Zn(SiO ₄)(OH) ₂	2.60x	9.33 ₉	3.42 ₈	29- 867
i	Getchellite	AsSbS ₃	2.88x	4.44 ₆	3.61 ₇	18- 142
i	Getchellite	AsSbS ₃	3.66x	2.92x	2.88x	21- 53
i	Geversite syn	PtSb ₂	1.94x	1.72 ₆	2.92 ₄	14- 141
i	Gianellaite	Hg ₄ N ₂ SO ₄	2.87x	2.74x	5.51 ₈	29- 907
c	Gibbsite	Al(OH) ₃	4.85x	4.38 ₄	4.33 ₂	29- 41
*	Gibbsite	Al(OH) ₃	4.85g	4.37 ₃	4.32 ₃	7- 324
*	Gibbsite syn	Al(OH) ₃	4.82x	4.34 ₄	4.30 ₂	12- 460
i	Giessenite	Pb ₄ Cu _{0.5} Bi ₆ SbS ₂₀	2.03x	3.44 ₉	3.40 ₉	25-1423
i	Giessenite	Pb ₈ Bi ₆ S ₁₇	3.62x	3.32 ₃	3.15 ₅	16- 716
i	Gillespite	BaFeSi ₄ O ₁₀	3.39x	4.41 ₇	3.22 ₇	3- 402
i	Ginorite	Ca ₂ B ₁₄ O ₂₃ ·8H ₂ O	7.18x	5.36 ₈	2.09 ₈	8- 116
i	Giorgiosite syn	Mg ₃ (CO ₃) ₄ (OH) ₂ ·5H ₂ O	11.8x	3.38 ₇	3.28 ₇	29- 858
*	Gismondine	CaAl ₂ Si ₂ O ₈ ·4H ₂ O	3.34x	4.27 ₄	3.19 ₂	20- 452
*	Gismondine	(Ca,Na ₂)Al ₂ Si ₂ O ₈ ·4H ₂ O	2.71x	4.25 ₇	3.19 ₇	21- 840
i	Gladite	CuPbBi ₃ S ₉	3.56x	1.31 ₉	3.10 ₇	25-1422
c	Gladite	CuPbBi ₃ S ₉	3.62x	2.83x	3.13 ₉	29- 562
*	Glauberite syn	Na ₂ Ca(SO ₄) ₂	3.13x	3.11 ₈	3.18 ₈	19-1187
i	Glaucocroite	(Ca,Mn) ₂ SiO ₄	1.85x	2.69 ₈	2.63 ₈	14- 376
i	Glaucodot	(Co,Fe)AsS	2.72x	1.83 ₉	2.45 ₈	5- 643
i	Glaucinite, 1M	K(Fe,Al) ₂ (Si,Al) ₄ O ₁₀ (OH) ₂	10.1x	2.59x	4.53 ₈	9- 439
c	Glaucophane	Na ₂ (Mg,Fe)Al ₂ Si ₈ O ₂₂ (OH) ₂	8.23x	2.69 ₆	3.05 ₅	20- 616
*	Glaucophane	Na ₂ (Mg,Fe) ₃ Al ₂ Si ₈ O ₂₂ (OH) ₂	8.26x	3.06 ₇	2.69 ₆	20- 453
i	Glaucophane syn	Na ₂ Mg ₃ Al ₂ Si ₈ O ₂₂ (OH) ₂	2.71x	3.12 ₉	2.50 ₈	15- 58
i	Glaucosphaerite	(Cu,Ni) ₂ CO ₃ (OH) ₂	2.59x	3.68 ₇	2.52 ₄	27- 178
i	Glucine	CaBe ₄ (PO ₄) ₂ (OH) ₄ ·0.5H ₂ O	10.8x	2.41x	1.39x	15- 781
i	Gmelinite	(Na ₂ ,Ca)Al ₂ Si ₄ O ₁₂ ·6H ₂ O	4.10x	12.0 ₉	2.96 ₈	9- 419
i	Gmelinite syn	Na ₂ (Al,Si) ₆ O ₁₂ ·6H ₂ O	6.85x	5.01x	3.43x	12- 229

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						File No.
		Ni_3S_6	2.85x	1.80 ₉	1.79 ₈	22-1193
i	Godlevskite	$(\text{Sr,Ca})_2\text{Al}(\text{PO}_4)_2(\text{OH})$	3.06x	2.59 ₇	2.84 ₆	29- 383
i	Goedkenite	$\alpha\text{-FeO}(\text{OH})$	4.18x	2.45 ₅	2.69 ₄	29- 713
*	Goethite	Au	2.36x	2.04 ₅	1.23 ₄	4- 784
*	Gold syn	$\text{Cu}_{12}(\text{Te,As,Sb})_4\text{S}_{13}$	2.97x	1.82 ₆	3.64 ₃	29- 531
i	Goldfieldite					
		$\text{KFe}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$	3.07x	7.35 ₉	10.3 ₈	11- 428
i	Goldichite	$\text{Ca}_3(\text{V,Fe,Al})_2(\text{SiO}_4)_3$	2.69x	3.01 ₇	1.61 ₅	16- 714
*	Goldmanite	$\text{CaNa}_2\text{Si}_6\text{Al}_4\text{O}_{20} \cdot 7\text{H}_2\text{O}$	2.92x	5.93 ₈	4.44 ₆	10- 473
i	Gonnardite	$(\text{Mn,Mg,Fe})_6\text{Si}_4\text{O}_{10}(\text{OH})_8$	7.23x	3.61 ₈	4.79 ₅	10- 378
i	Gonyerite	$(\text{Ba,Ca})\text{Al}_3(\text{PO}_4)_2(\text{OH})_3 \cdot \text{H}_2\text{O}$	2.98x	5.73 ₉	3.52 ₈	19- 535
i	Gorceixite					
		$\text{MgAl}_2(\text{PO}_4)_2(\text{OH})_2 \cdot 8\text{H}_2\text{O}$	9.78x	3.17 ₈	2.83 ₇	14- 313
i	Gordonite	$\text{K}_2\text{Ca}_3(\text{SO}_4)_6 \cdot \text{H}_2\text{O}$	3.01x	3.16 ₇	2.82 ₄	18- 997
i	Gorgeyite	$\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$	4.21x	5.36 ₈	4.18 ₅	9- 395
*	Goslarite syn	$(\text{NaCaAl})_7(\text{SiTi})_3\text{O}_{13}\text{F}_{3.5}$	3.10x	2.99x	1.91 ₅	12- 536
i	Gotzenite	$\text{Cu}_6\text{Al}(\text{AsO}_4)_2(\text{OH})_6 \cdot 3\text{H}_2\text{O}$	11.6x	2.92 ₃	4.41 ₅	29- 526
i	Goudyite					
		$\text{CaB}_6\text{O}_{10} \cdot 5\text{H}_2\text{O}$	8.20x	3.19 ₅	9.20 ₃	12- 528
i	Gowerite	$\text{SrAl}_3(\text{PO}_4)_2(\text{OH})_3 \cdot \text{H}_2\text{O}$	5.73x	2.96x	3.49 ₆	11- 194
i	Goyazite	$\text{CuTeO}_3 \cdot \text{H}_2\text{O}$	6.40x	3.43 ₈	12.8 ₅	26-1118
i	Graemite	$(\text{Fe,Mn,Ca})_3(\text{PO}_4)_2$	2.86x	3.50 ₉	2.72 ₇	6- 423
i	Graftonite	$(\text{Mg,Fe})\text{Al}_3\text{BSiO}_9$	5.17x	5.04x	5.48 ₈	18- 581
*	Grandidierite					
		$\text{Na}_4\text{CaxV}_{12}\text{O}_{32} \cdot 8\text{H}_2\text{O}$	8.74x	3.61 ₃	12.4 ₂	16- 408
i	Grantsite	C	3.36x	1.68 ₈	2.03 ₅	23- 64
i	Graphite, 2H	C	3.35x	2.03 ₂	1.67 ₁	25- 284
c	Graphite, 2H syn	C	3.35x	2.08 ₁	1.96 ₁	26-1079
c	Graphite, 3R syn	$\text{Pb}_9\text{As}_4\text{S}_{15}$	3.43x	3.75 ₆	2.73 ₅	13- 446
i	Gratonite					
		$(\text{Fe,Mn})_3\text{Si}_2\text{O}_5(\text{OH})_4$	7.22x	3.58 ₅	2.47 ₅	23- 301
	Greenalite	$\text{Fe}_3\text{Si}_2\text{O}_5(\text{OH})_4$	2.57x	7.12 ₈	3.56 ₈	2-1012
o	Greenalite, 1M	$\text{Fe}_3\text{Si}_2\text{O}_5(\text{OH})_4$	2.59x	2.20 ₉	7.21 ₇	11- 265
o	Greenalite, 1T	$\text{Fe}_3\text{Si}_2\text{O}_5(\text{OH})_4$	3.16x	3.58 ₈	3.37 ₆	6- 314
*	Greenockite syn	CdS	2.98x	1.75 ₈	2.47 ₆	16- 713
*	Greigite					
		$\text{CrO}(\text{OH})$	4.44x	2.41 ₃	1.86 ₃	9- 331
*	Grimaldite	$\text{K}_3\text{NaUO}_2(\text{CO}_3)_3 \cdot \text{H}_2\text{O}$	5.78x	8.06 ₈	3.63 ₈	25- 679
i	Grimselite syn	$(\text{MnNaCa})_6\text{Al}_4(\text{PO}_4)_3(\text{OH})_4$	2.73x	3.04 ₃	2.95 ₃	25- 774
i	Griphite	$\text{Ca}_3\text{Al}_2(\text{SiO}_4)_3$	2.65x	1.58 ₅	2.96 ₃	26- 292
*	Grossular	$\text{MnO}(\text{OH})$	4.20x	2.81 ₇	2.67 ₇	12- 733
i	Groutite					
		$\alpha\text{-MnOOH}$	4.20x	2.37 ₅	2.81 ₃	24- 713
c	Groutite	$(\text{Mn}_{0.89}\text{Sb}_{0.04})\text{O}(\text{OH})_{1.11}$	4.18x	2.78 ₆	2.64 ₈	20- 108
i	Groutite, antimonian	Bi_4FeS_3	3.11x	2.13 ₃	2.25 ₂	2- 580
i	Gruenlingite	$(\text{Fe,Mg})_7\text{Si}_8\text{O}_{22}(\text{OH})_2$	8.33x	3.06 ₇	2.76 ₇	17- 745
i	Grunerite	$(\text{Fe}_{0.9}\text{Mg}_{0.1})_7(\text{OH})_2\text{Si}_8\text{O}_{22}$	8.33x	2.77 ₉	3.07 ₈	17- 725
i	Grunerite					
		$\text{Bi}_2(\text{Se,S})_3$	3.19x	3.65 ₉	1.99 ₇	10- 475
i	Guanajuatite	$\text{Pd}_3(\text{Sb,As})$	2.18x	2.37 ₇	1.65 ₃	29- 958
o	Guanglinitite, antimonian	$\text{C}_4(\text{NH})_3\text{OCHNNH}$	3.22x	6.32 ₇	3.53 ₃	28-2012
i	Guanine syn	FeSbS	2.56x	1.91 ₈	1.41 ₇	8- 104
i	Gudmundite	$\text{Ca}_5\text{H}_2(\text{AsO}_4)_4 \cdot 9\text{H}_2\text{O}$	14.0x	3.89 ₈	3.01 ₈	26-1055
i	Guerinite					
		$\text{Pb}_9(\text{Sb,As})_{16}\text{S}_{33}$	3.52x	2.80 ₉	4.19 ₅	20- 561
i	Guettardite	$\text{CuFe}(\text{SO}_4)_2(\text{OH}) \cdot 4\text{H}_2\text{O}$	3.14x	9.46 ₄	5.00 ₃	23- 217
i	Guildite	$\text{Ba}(\text{UO}_2)_3(\text{OH})_4(\text{SeO}_3)_2 \cdot 3\text{H}_2\text{O}$	8.39x	7.29x	3.55 ₈	18- 582
i	Guilleminite	$\text{ZnSO}_4 \cdot \text{H}_2\text{O}$	3.42x	4.77 ₆	3.07 ₃	12- 781
*	Gunningite syn	$\text{Bi}_{11}\text{Pb}_5\text{Ag}_3\text{S}_{24}$	3.36x	3.00x	2.90x	24- 143
i	Gustavite					
		$(\text{AlFe})_3\{(\text{PV})\text{O}_4\}_2(\text{OH})_3 \cdot 8\text{H}_2\text{O}$	4.08x	2.51 ₉	1.82 ₈	14- 139
o	Gutsevichite	CrOOH	3.22x	2.43 ₈	1.64 ₅	20- 312
*	Guyanaite syn	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	7.56x	3.06 ₆	4.27 ₅	6- 46
*	Gypsum	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	2.87x	4.28 ₉	2.68 ₃	21- 816
*	Gypsum	$\text{Ca}_4(\text{Si}_6\text{O}_{13})(\text{OH})_2 \cdot 3\text{H}_2\text{O}$	22.0x	3.12x	11.0 ₈	9- 449
i	Gyralite					
		$\text{Ca}_4(\text{Si}_6\text{O}_{13})(\text{OH})_2 \cdot 3\text{H}_2\text{O}$	3.16x	22.0 ₉	3.10 ₉	12- 217
i	Gyralite syn	$(\text{FeNi})_2\text{Mg}_{1.6}\text{S}_2(\text{OH})_{3.2}$	11.3x	5.67 ₉	3.18 ₈	26-1135
i	Haapalaite	HfSiO_4	3.29x	2.51 ₇	4.43 ₆	20- 467
	Hafnon syn	$(\text{Na,Ca})(\text{Fe,Mn})_2(\text{PO}_4)_2$	2.69x	2.59 ₈	3.42 ₇	29-1191
	Hagendorffite	$\text{V}_2\text{O}_5(\text{OH})_3$	4.80x	4.05 ₅	3.02 ₃	29-1380
	Haggite					
		$\text{CaHASO}_4 \cdot \text{H}_2\text{O}$	5.22x	2.96 ₈	8.06 ₆	18- 288
i	Haidingerite	$\text{Ca}(\text{UO}_2)_2\text{Si}_6\text{O}_{15} \cdot 5\text{H}_2\text{O}$	9.16x	4.59 ₇	4.43 ₆	22- 160
o	Haiweeite	$\text{Ca}_3(\text{UO}_2)_4\text{Si}_{10}\text{O}_{35} \cdot 24\text{H}_2\text{O}$	9.30x	4.62 ₅	4.47 ₄	13- 118
i	Haiweeite	$\text{Ca}(\text{UO}_2)_2\text{Si}_6\text{O}_{15} \cdot 5\text{H}_2\text{O}$	9.26x	4.53 ₈	4.41 ₅	12- 721
o	Haiweeite	$\text{Ca}_2(\text{UO}_2)_2\text{Si}_5\text{O}_{16} \cdot 9\text{H}_2\text{O}$	3.38x	3.03x	4.57 ₉	17- 462
o	Haiweeite					
		$\text{Mg}_2(\text{UO}_2)_2\text{Si}_5\text{O}_{16} \cdot 9\text{H}_2\text{O}$	4.99x	3.07x	2.30 ₉	17- 463
o	Haiweeite-(Mg)	$(\text{Cu,Hg})_{12}\text{Sb}_4\text{Se}_{13}$	3.14x	1.93 ₉	1.64 ₈	25- 297
i	Hakite	NaCl	2.82x	1.99 ₆	1.63 ₂	5- 628
*	Halite syn	$\text{Pb}_2(\text{UO}_2)_2(\text{AsO}_4)_2$	3.40x	2.84 ₄	1.74 ₆	18- 706
i	Hallimondite syn	$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$	4.42x	7.50 ₉	3.63 ₉	9- 453
i	Halloysite, 7A					
		$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4 \cdot 2\text{H}_2\text{O}$	4.42x	10.1 ₉	3.34 ₉	9- 451
	Halloysite, 10A	$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$	4.42x	7.30 ₇	3.62 ₆	29-1487
	Halloysite, 7A	$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4 \cdot 2\text{H}_2\text{O}$	10.0x	4.36 ₇	3.35 ₄	29-1489
	Halloysite, 10A	$\text{FeAl}_2(\text{SO}_4)_4 \cdot 22\text{H}_2\text{O}$	4.81x	4.30x	3.50x	26-1425
i	Halotrichite	$\text{Mg}_2\text{B}_8\text{O}_{14} \cdot 5\text{H}_2\text{O}$	3.87x	3.29x	4.81 ₉	15- 180
o	Halurgite					
		$\text{Be}_2\text{BO}_3(\text{OH})$	3.81x	3.13 ₉	3.16 ₅	17- 475
i	Hambergite	$\text{Pb}_2\text{Cu}_2\text{Bi}_4\text{S}_9$	3.63x	3.14x	4.01 ₉	22- 240
i	Hammarite	$(\text{PbCaSr})_2(\text{AlFe})_3\text{Si}_3\text{O}_{12}\text{OH}$	2.91x	3.49 ₅	2.60 ₅	17- 212
i	Hancockite	$\text{Na}_{22}\text{K}(\text{CO}_3)_2(\text{SO}_4)_9\text{Cl}$	3.81x	2.79 ₉	2.62 ₈	25- 780
c	Hanksite	$\text{KNa}_{22}(\text{CO}_3)_2(\text{SO}_4)_9\text{Cl}$	3.81x	3.53 ₈	2.79 ₇	25-1348
i	Hanksite					

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* Hannayite syn	$Mg_3(NH_4)_2H_4(PO_4)_4 \cdot 8H_2O$	6.96x	3.46 ₈	5.15 ₃	16- 361
* Haradaite syn	$SrVO_3Si_2O_6$	3.20x	2.88 ₉	3.65 ₄	18-1284
* Hardystonite	$Ca_2ZnSi_2O_7$	2.87x	3.09 ₆	3.71 ₅	12- 453
Harkerite	$Ca_{12}Mg_4AlB_3C_4Si_4(OH)_8$	2.61x	1.84 ₉	2.13 ₈	10- 465
i Harmotome	$(BaNa)_2(SiAl)_8O_{16} \cdot 6H_2O$	6.38x	3.13 ₈	2.67 ₇	20- 468
* Harmotome-(Na)					
i Harstigitite	$NaKBa(SiAlFe)_{16}O_{32} \cdot 11H_2O$	7.13x	3.17 ₉	8.13 ₇	25- 855
i Hastingsite, chloro, potassian	$Ca_6(MnMg)Be_2Si_4(O,OH)_{24}$	2.70x	2.82 ₅	2.79 ₅	20- 200
i Hastingsite, magnesian	$KCa_2Fe_3(SiAl)_8O_{22}Cl_2$	8.52x	3.16 ₆	2.59 ₄	20- 378
o Hastite	$Ca_2(Fe,Mg)_5(SiAl)_8O_{22}(OH)_2$	8.43x	3.13 ₇	2.71 ₆	20- 469
	$CoSe_2$	2.60x	2.50x	1.90x	10- 408
i Hatchite					
i Hauchecornite, tellurian	$PbTiAgAs_2S_5$	3.31x	2.86 ₉	3.40 ₈	25- 463
i Hauerite syn	$Ni_9(Bi,Te)_2S_8$	2.80x	2.31 ₆	2.41 ₅	25- 575
* Hausmannite syn	Mn_3O_4	3.05x	1.84 ₉	1.18 ₈	25- 549
* Hauyne	Mn_3O_4	2.49x	2.77 ₉	1.54 ₅	24- 734
	$(Na,Ca)_8(Si,Al)_{12}O_{24}(SO_4)_2$	3.72x	2.62 ₃	6.47 ₂	20-1087
i Hawleyite					
o Haxonite	CdS	3.36x	2.06 ₉	1.75 ₆	10- 454
i Haycockite	$(Fe,Ni)_{23}C_6$	2.36x	2.15x	1.86 ₆	25- 405
i Heazlewoodite	$Cu_4(Fe,Ni)_5S_8$	3.07x	1.88 ₈	1.89 ₆	25- 289
i Hectorite, 15A	Ni_3S_2	1.83x	2.89 ₉	1.66 ₈	8- 126
	$(Mg,Li)_3Si_4O_{10}(OH)_2 \cdot xH_2O$	4.58x	1.53x	15.8 ₈	9- 31
i Hectorite syn					
i Hedenbergite, magnesian	$Na_x(Mg,Li)Si_4O_{10}(OH,F)_2$	4.50x	2.60x	1.53x	25-1385
* Hedenbergite, magnesian syn	$Ca(Fe,Mg)Si_2O_6$	3.00x	2.53 ₈	2.97 ₅	25- 160
* Hedenbergite syn	$Ca(Fe,Mg)(SiO_3)_2$	2.99x	2.53 ₈	2.57 ₄	24- 205
i Hedleyite	$Ca(Fe,Mg)(SiO_3)_2$	3.00x	2.54 ₄	2.58 ₃	24- 204
	Bi_7Te_3	3.25x	2.37 ₅	2.24 ₄	12- 719
i Hedleyite syn					
i Hedyphane	Bi_3Te_3	3.26x	2.37 ₇	2.24 ₆	19- 176
i Heideite syn	$(Pb,Ca)_5(As,P)_3O_{12}Cl$	3.03x	2.96 ₆	2.92 ₅	14- 213
i Heidornite	$FeTi_2S_4$	2.06x	1.10 ₉	2.63 ₈	10- 64
i Heinrichite syn	$Na_2Ca_3(SO_4)_2B_3O_6Cl(OH)_2$	3.11x	3.77 ₈	2.74 ₈	25- 805
	$Ba(UO_2AsO_4)_2 \cdot 10H_2O$	10.0x	3.53x	3.35 ₈	29- 210
i Heliophyllite					
i Hollandite	$Pb_6As_2O_7Cl_4$	2.84x	2.70 ₄	3.66 ₄	20- 471
c Hellyerite	$(Ca,Y)_2(Si,B)_3O_8 \cdot H_2O$	2.81x	4.69 ₈	2.64 ₈	25- 184
c Hellyerite	$NiCO_3(H_2O)_4 \cdot 1.5H_2O$	5.81x	9.32 ₉	5.68 ₄	24- 523
c Helvite	$NiCO_3 \cdot 6H_2O$	9.40x	6.06x	3.65 ₇	12- 276
	$Mn_4(BeSiO_4)_3S$	3.39x	1.96 ₃	2.22 ₁	24- 22
i Helvite					
c Hematite	$Mn_4Be_3(SiO_4)_3S$	3.38x	1.96 ₈	2.22 ₇	29- 217
* Hematite syn	Fe_2O_3	2.70x	2.52 ₇	1.70 ₄	24- 72
i Hematolite	Fe_2O_3	2.69x	1.69 ₆	2.51 ₅	13- 534
i Hematophanite	$Mn_{10}Mg_2Al_3(AsO_4)_3(OH)_{24}$	2.39x	1.56 ₉	6.12 ₈	6- 563
	$Pb_3Fe_4O_{10}(Cl,OH)_2$	2.18x	3.10 ₅	1.55 ₄	2-1168
i Hematophanite					
i Hemihedrite	$Pb_4Fe_3O_3Cl$	2.76x	2.71x	3.90 ₆	27- 271
c Hemihedrite	$Pb_{10}Zn(CrO_4)_6(SiO_4)_2F_2$	3.30x	4.87 ₉	4.36 ₈	24-1457
* Hemimorphite	$Pb_{10}Zn(CrO_4)_6(SiO_4)_2F_2$	3.30x	3.16 ₇	3.11 ₇	25-1199
i Hemusite	$Zn_4Si_2O_7(OH)_2 \cdot H_2O$	3.10x	6.60 ₉	3.29 ₈	5- 555
	Cu_6MoSnS_8	3.11x	1.92 ₅	1.86 ₃	25- 300
i Hendersonite					
i Hendricksite, 1M	$Ca_2V_9O_{24} \cdot 8H_2O$	9.43x	3.11 ₄	4.70 ₂	15- 277
i Henritermierite	$K(ZnMnFe)_3(SiAl)_4O_{10}(OH)_2$	10.2x	3.40 ₆	5.09 ₄	19- 544
i Hercynite syn	$Ca_3(Mn,Al)_2(SiO_4)_2(OH)_4$	2.75x	2.52 ₈	4.37 ₆	22- 150
i Herderite	$FeAl_2O_4$	2.45x	2.02 ₈	1.43 ₈	3- 894
	$CaBePO_4(OH,F)$	3.14x	2.86 ₈	2.20 ₇	6- 338
* Herschelite					
* Herzenbergite syn	$Na_4Al_4Si_8O_{24} \cdot 12H_2O$	2.93x	4.32 ₇	9.36 ₅	19-1178
i Hessite	SnS	2.79x	1.40 ₇	2.83 ₃	14- 620
* Hetaerolite syn	Ag_2Te	2.31x	2.87 ₈	2.25 ₇	12- 695
i Heterogenite, 2H	$ZnMn_2O_4$	2.47x	2.72 ₇	3.05 ₅	24-1133
	$CoOOH$	4.39x	2.16 ₈	1.64 ₈	26-1107
i Heterogenite, nickelian					
* Heterogenite, 3R syn	$(Co,Ni)O(OH)$	4.56x	1.44 ₈	2.48 ₇	29- 491
* Heteromorphite	$CoOOH$	4.38x	2.31 ₉	1.80 ₈	7- 169
i Heterosite, manganoan	$Pb_7Sb_8S_{19}$	3.30x	3.40 ₈	3.25 ₈	22- 649
i Heulandite	$(Fe,Mn)PO_4$	3.46x	2.91x	2.43x	27- 305
	$CaAl_2Si_7O_{18} \cdot 6H_2O$	7.89x	8.90 ₈	6.75 ₈	24- 182
i Heulandite					
c Heulandite	$CaAl_2Si_7O_{18} \cdot 6H_2O$	3.92x	2.96 ₅	8.85 ₈	21- 131
i Heulandite, strontian	$Ca_{1.23}(Al_2Si_7)O_{18} \cdot 6H_2O$	8.95x	3.98 ₈	7.93 ₆	25- 144
* Hexahydrite syn	$(Ca,Sr)Al_2Si_7O_{18} \cdot 6H_2O$	3.94x	2.80 ₈	7.95 ₇	24- 469
o Hexatestibiopanickelite	$MgSO_4 \cdot 6H_2O$	4.39x	5.45 ₅	5.10 ₅	24- 719
	$(Ni,Pd)_2SbTe$	2.89x	2.11 ₈	1.99 ₇	29- 932
i Heyite					
i Heyrovskyite syn	$Fe_2Pb_3(VO_4)_2O_4$	3.25x	2.97 ₇	2.77 ₆	25-1404
o Hibonite	$Pb_{10}AgBi_5S_{18}$	3.41x	2.09 ₄	3.54 ₃	25- 432
i Hidalgoite	$CaAl_2O_{19}$	1.40x	2.64 ₉	2.13 ₉	25- 121
* Hieratite syn	$PbAl_3AsO_4SO_4(OH)_6$	2.98x	5.73 ₉	3.51 ₉	6- 380
	K_2SiF_6	4.70x	2.35 ₇	2.88 ₇	7- 217
i Hilairite					
i Hilgardite	$Na_2ZrSi_2O_9 \cdot 3H_2O$	5.28x	6.00 ₆	3.17 ₅	26- 975
i Hilgardite, strontian	$Ca_2B_3O_8(OH)_2Cl$	2.85x	2.11 ₈	1.99 ₈	11- 404
i Hillebrandite	$(Ca,Sr)_2B_3O_8(OH)_2Cl$	2.89x	2.82x	2.78x	11- 405
i Hinsdalite	$Ca_2SiO_3(OH)_2$	2.92x	4.76 ₉	3.33 ₉	9- 51
	$PbAl_3(OH)_6(PO_4)(SO_4)$	2.78x	2.96 ₈	5.59 ₇	16- 711
i Hinsdalite					
i Hiortdahlite	$(Pb,Sr)Al_3PO_4SO_4(OH)_6$	2.96x	5.70 ₈	2.21 ₇	14- 185
o Hisingerite	$(Na,Ca,La,Y)_3ZrSi_2O_7F_2$	2.87x	3.00 ₉	3.28 ₃	27- 668
i Hocrartite	$Fe_2Si_2O_5(OH)_4 \cdot 2H_2O$	4.23x	2.46x	1.72x	26-1140
i Hodgkinsonite	Ag_2FeSnS_4	3.26x	1.98 ₈	1.72 ₇	21-1337
	$MnZn_2SiO_4(OH)_2$	2.86x	2.96 ₉	1.55 ₉	15- 280

MINERAL NAMES

					File No.
i	Hodrushite	$\text{Cu}_3\text{Bi}_{12}\text{S}_{22}$	3.10x	3.62 ₈	25- 267
*	Hoelite syn	$\text{C}_6\text{H}_4(\text{CO})_2\text{C}_6\text{H}_4$	3.52x	7.69x	28-2002
*	Hoernesite	$\text{Mg}_3(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	6.69x	3.01 ₅	19- 752
*	Hogbomite, 5H	$(\text{Mg}, \text{Fe})_2(\text{Al}, \text{Ti})_4\text{O}_6$	2.43x	1.43 ₈	16- 336
i	Hogbomite, 18R	$(\text{FeMg})_{1-8}(\text{AlTi})_{3-7}\text{O}_8$	2.44x	2.87 ₆	16- 167
*	Hohmannite	$\text{Fe}_2(\text{OH})_2(\text{SO}_4)_2 \cdot 7\text{H}_2\text{O}$	7.92x	8.69 ₈	17- 155
	Holdenite	$\text{Mn}_2\text{Zn}_3(\text{OH})_8(\text{AsO}_4)_2(\text{SiO}_4)$	2.84x	3.58 ₈	29- 903
	Hollandite	$(\text{Ba}, \text{K}_2)\text{MnMn}_7\text{O}_{16} \cdot \text{ca } 2\text{H}_2\text{O}$	3.13x	2.40 ₉	13- 115
i	Hollandite, ferrian	$\text{BaFeMn}_7\text{O}_{16}$	3.15x	3.12x	12- 514
i	Holmquistite	$\text{Li}_2(\text{Mg}, \text{Fe})_3\text{Al}_2(\text{OH})_2\text{Si}_8\text{O}_{22}$	8.11x	3.00 ₉	13- 401
i	Holtite	$(\text{TaSb})\text{Al}_6(\text{SiO}_4)_3\text{BO}_3(\text{OOH})_3$	10.3x	2.94 ₄	25-1209
i	Homilite	$\text{Ca}_2\text{FeB}_2\text{Si}_2\text{O}_{10}$	3.10x	2.52x	17- 211
o	Honessite	$\text{Ni-Fe-SO}_4\text{-H}_2\text{O}$	8.70x	4.33 ₂	25- 407
o	Hongquilit	TiO	2.14x	1.08 ₈	29-1361
o	Hongshiite	CuPtAs	4.52x	2.21x	29- 574
i	Hopeite	$\text{Zn}_3(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$	2.85x	9.16 ₇	26-1397
i	Hornblende, pargasitic, ferroan	$\text{NaCa}_2\text{Fe}_3(\text{AlSi})_8\text{O}_{22}(\text{OH})_2$	8.52x	3.16 ₉	29-1258
	Howieite	$\text{NaFe}_{12}\text{Si}_{12}\text{O}_{31}(\text{OH})_{13}$	9.18x	7.91 ₈	19- 571
i	Howlite	$\text{Ca}_2\text{SiB}_5\text{O}_{19}(\text{OH})_3$	4.14x	6.24 ₉	18- 618
c	Howlite	$\text{Ca}_2\text{B}_5\text{SiO}_{19}(\text{OH})_3$	6.21x	3.89x	26-1404
i	Hsianghualite	$\text{Li}_2\text{Ca}_3\text{Be}_3(\text{SiO}_4)_3\text{F}_2$	2.75x	2.21x	18- 723
i	Huanghoite	$\text{BaCe}(\text{CO}_3)_2\text{F}$	3.21x	1.94x	15- 286
*	Hubnerite syn	MnWO_4	3.00x	2.95x	13- 434
i	Huehnerkobelite	$(\text{Na}, \text{Ca})(\text{Fe}, \text{Mn})_2(\text{PO}_4)_2$	2.70x	6.24 ₇	17- 513
*	Huemulite	$\text{Na}_4\text{MgV}_{10}\text{O}_{28} \cdot 2\text{H}_2\text{O}$	7.61x	10.6 ₉	18-1225
*	Hulsite	$(\text{Fe}, \text{Mg})_2(\text{Fe}, \text{Sn})\text{BO}_3\text{O}_2$	2.66x	5.35 ₇	17- 511
*	Humberstonite	$\text{K}_3\text{Na}_7\text{Mg}_2(\text{SO}_4)_6(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	3.39x	2.72 ₇	21- 682
*	Humboldtine syn	$\text{C}_2\text{FeO}_4 \cdot 2\text{H}_2\text{O}$	4.80x	4.70 ₇	23- 293
*	Humite syn	$\text{Mg}_7\text{F}_2(\text{SiO}_4)_3$	2.26x	2.44 ₇	12- 755
i	Hummerite	$\text{KMgV}_3\text{O}_{14} \cdot 8\text{H}_2\text{O}$	8.20x	7.40 ₇	14- 155
	Hungchaoite syn	$\text{MgB}_4\text{O}_7 \cdot 9\text{H}_2\text{O}$	4.08x	2.91x	16- 392
i	Huntite	$\text{Mg}_3\text{Ca}(\text{CO}_3)_4$	2.83x	1.97 ₃	14- 409
c	Hureaulite	$\text{Mn}_3(\text{H}_2\text{O})_4(\text{PO}_3(\text{OH}))_2(\text{PO}_4)_2$	8.06x	3.14 ₈	25- 400
i	Hureaulite	$(\text{Mn}, \text{Fe})_5\text{H}_2(\text{PO}_4)_4 \cdot 4\text{H}_2\text{O}$	3.14x	8.01 ₇	16- 383
i	Hurlbutite	$\text{CaBe}_2(\text{PO}_4)_2$	3.67x	3.03 ₉	6- 213
i	Hutchinsonite	$(\text{Ti}, \text{Pb})_2\text{As}_5\text{S}_9$	2.74x	3.78 ₇	8- 124
i	Huttonite	ThSiO_4	3.09x	2.89 ₉	4- 613
i	Hyalotekite	$(\text{Pb}, \text{Ca}, \text{Ba})_4\text{BSi}_6\text{O}_{17}(\text{F}, \text{OH})$	3.45x	3.53 ₈	19- 572
i	Hydroastrophyllite	$(\text{H}_3\text{O})_2\text{CaFe}_7\text{Ti}_2\text{Si}_5\text{O}_{20}(\text{OH})_{11}$	3.51x	10.6 ₉	29- 991
	Hydrobasaluminite	$\text{Al}_4\text{SO}_4(\text{OH})_{10} \cdot 36\text{H}_2\text{O}$	12.6x	6.18 ₇	8- 76
*	Hydroboracite	$\text{CaMgB}_6\text{O}_{17}(\text{OH})_8 \cdot 2\text{H}_2\text{O}$	5.77x	6.68 ₉	11- 77
	Hydrocalumite	$\text{Ca}_2\text{Al}(\text{OH})_7 \cdot 3\text{H}_2\text{O}$	7.86x	3.93 ₆	16- 333
i	Hydrocerussite syn	$\text{Pb}_3(\text{CO}_3)_2(\text{OH})_2$	2.62x	3.61 ₉	13- 131
*	Hydrochlorborite	$\text{Ca}_4\text{B}_8\text{O}_{15}\text{Cl}_2 \cdot 22\text{H}_2\text{O}$	8.48x	6.01 ₃	29- 312
i	Hydrodresserite	$\text{BaAl}_2(\text{CO}_3)_2(\text{OH})_4 \cdot 3\text{H}_2\text{O}$	8.52x	3.42 ₇	29- 145
i	Hydrogen-autunite syn	$\text{H}_2(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$	9.03x	3.80 ₉	8- 296
o	Hydroglauberite	$\text{Na}_{10}\text{Ca}_3(\text{SO}_4)_8 \cdot 6\text{H}_2\text{O}$	3.08x	9.20 ₉	24-1071
i	Hydrogrossular	$\text{Ca}_3\text{Al}_2(\text{SiO}_4)_2\text{CO}_3(\text{OH})_3$	2.71x	1.62x	3- 801
i	Hydrogrossular, intermediate	$\text{Ca}_3\text{Al}_2\text{Si}_2\text{O}_8(\text{OH})_4$	2.68x	3.00 ₈	4- 723
*	Hydrogrossular syn	$\text{Ca}_3\text{Al}_2(\text{OH})_{12}$	2.30x	2.04x	24- 217
	Hydrohalite	$\text{NaCl} \cdot 2\text{H}_2\text{O}$	2.98x	2.67x	29-1197
i	Hydrohetaeralite	$\text{Zn}_2\text{Mn}_4\text{O}_8 \cdot \text{H}_2\text{O}$	2.47x	2.66 ₈	9- 459
i	Hydromagnesite	$\text{Mg}_5(\text{CO}_3)_4(\text{OH})_2 \cdot 4\text{H}_2\text{O}$	5.79x	2.90 ₈	25- 513
	Hydromolysite syn	$\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$	6.00x	3.14 ₈	1- 153
*	Hydronium jarosite syn	$\text{Fe}_3(\text{SO}_4)_2(\text{OH})_3 \cdot 2\text{H}_2\text{O}$	5.10x	3.13 ₉	21- 932
*	Hydrophilite syn	CaCl_2	3.05x	4.48 ₉	24- 223
i	Hydromarchite	$\text{Sn}_3\text{O}_2(\text{OH})_2$	3.50x	2.77 ₉	25-1303
	Hydrotalcite	$\text{Mg}_6\text{Al}_2\text{CO}_3(\text{OH})_{16} \cdot 4\text{H}_2\text{O}$	7.69x	3.88 ₇	14- 191
i	Hydrotalcite syn	$\text{Mg}_6\text{Al}_2\text{CO}_3(\text{OH})_{16} \cdot 4\text{H}_2\text{O}$	7.84x	3.90 ₆	22- 700
i	Hydrotungstite	$\text{H}_2\text{WO}_4 \cdot \text{H}_2\text{O}$	6.95x	3.27 ₈	16- 166
i	Hydroxyapophyllite	$\text{KCa}_4\text{Si}_8\text{O}_{20}(\text{OH}) \cdot 8\text{H}_2\text{O}$	3.97x	2.99 ₇	29- 994
i	Hydroxyl-apatite	$\text{Ca}_5(\text{PO}_4)_3(\text{OH}, \text{Cl}, \text{F})$	2.83x	2.73 ₈	25- 166
*	Hydroxyl-apatite syn	$\text{Ca}_5(\text{PO}_4)_3(\text{OH})$	2.81x	2.78 ₆	9- 432
i	Hydroxyl-bastnaesite	$(\text{Ce}, \text{La})\text{CO}_3(\text{OH})$	2.92x	3.59 ₉	17- 503
i	Hydroxyl-bastnaesite syn	LaCO_3OH	2.95x	5.02 ₈	29- 744
i	Hydroxyl-ellestadite	$\text{Ca}_{10}((\text{SiO}_4)_3(\text{SO}_4)_3)(\text{OH})_2$	2.84x	2.74 ₆	25- 173
i	Hydroxyl-herderite	$\text{CaBe}(\text{PO}_4)(\text{OH}, \text{F})$	3.13x	2.87 ₇	29-1408
i	Hydrozincite	$\text{Zn}_3(\text{CO}_3)_2(\text{OH})_6$	6.77x	2.48 ₇	19-1458
*	Hypersthene	$(\text{Fe}, \text{Mg})\text{SiO}_3$	3.18x	2.88 ₅	19- 606
	lanthinite	$\text{U}_6\text{O}_7(\text{OH})_{20}$	7.63x	3.81 ₈	12- 272
i	Ice 1H syn	H_2O	3.90x	3.66x	16- 687
o	Idaite syn	Cu_3FeS_4	3.14x	2.82x	13- 161
o	Idrialite	$\text{C}_{24}\text{H}_{18}$	18.1x	5.06x	28-2005
i	Idrialite	$\text{C}_{22}\text{H}_{14}$	4.94x	3.40 ₈	28-2006
i	limoriite	$\text{Y}_5(\text{SiO}_4)_3(\text{OH})_3$	2.88x	2.84 ₈	29-1388
i	Ikunolite	$(\text{Bi}_4(\text{S}, \text{Se})_3)_7\text{R}$	3.02x	4.34 ₅	12- 730
c	Ikunolite	$\text{Bi}_4(\text{S}_{2-76}\text{Se}_{0-24})$	3.02x	2.21 ₃	25-1175
	Illesite syn	$\text{MnSO}_4 \cdot 4\text{H}_2\text{O}$	4.48x	5.56 ₇	14- 655
i	Ilmaussite	$\text{KNaBaLaFeTiNbSiO}_6 \cdot \text{H}_2\text{O}$	2.67x	3.25 ₆	21- 399
	Illite, 2M ₂	$\text{K}_{0.7}\text{Al}_{2.1}(\text{Si}, \text{Al})_4\text{O}_{10}(\text{OH})_2$	2.58x	4.49 ₇	24- 495

MINERAL NAMES

						File No.
i	Illite, 1M	$KAl_2(Si_3AlO_{10})(OH)_2$	3.35x	2.60x	1.99x	2- 462
i	Illite, 2M ₁	$(K,H_3O)Al_2Si_3AlO_{10}(OH)_2$	3.34x	10.0 ₉	5.02 ₅	26- 911
i	Illite, 1Md	$K_{0.7}Al_2(Si,Al)_4O_{10}(OH)_2$	4.43x	2.56 ₉	3.66 ₄	29-1496
i	Illite (Trioctahedral)	$K(Al,Mg)_3Si_3AlO_{10}(OH)_2$	10.0x	4.48 ₉	3.33 ₉	9- 343
i	Illite-Montmorillonite	$K_6Al_2Si_4O_{10}(OH)_2 \cdot xH_2O$	4.45x	2.55 ₇	12.2 ₄	29-1495
o	Ilmajokite	$(NaCe)_2Ti(SiC)_3O_9 \cdot xH_2O$	11.5x	4.30x	2.44x	25- 783
*	Ilmenite syn	$FeTiO_3$	2.75x	2.54 ₇	1.73 ₆	29- 733
i	Ilmenorutile	$(Ti,Nb,Ta,Fe)O_2$	3.28x	1.70x	2.51 ₉	16- 934
i	Ilmenorutile	$(Ti,Nb,Ta,Fe)O_2$	3.26x	1.70 ₉	2.94 ₈	11- 397
i	Ilmenorutile	$(Ti,Nb,Ta,Fe)O_2$	3.23x	1.69 ₉	2.48 ₈	11- 396
o	Ilsemanite	$Mo_3O_8 \cdot xH_2O$	3.36x	4.23 ₅	1.64 ₅	21- 574
i	Ilvaite	$CaFe_3(SiO_4)_2OH$	2.68x	2.85x	2.72 ₇	25- 149
i	Imgreite syn	$NiTe$	2.84x	2.10 ₇	1.56 ₇	17- 502
o	Imhofite	$Ti_6CuAs_{16}S_{40}$	2.68x	2.88 ₉	3.96 ₇	25- 936
o	Imogolite	$Al_4Si_2O_7(OH)_{10} \cdot xH_2O$	21.0x	4.12x	1.40x	25-1493
o	Incaite	$(Pb,Ag)_4FeSn_4Sb_2S_{13}$	2.86x	2.03 ₈	3.43 ₇	27- 277
i	Inderborite	$CaMgB_6O_{11} \cdot 11H_2O$	3.35x	3.26 ₈	3.07 ₈	12- 70
i	Inderite	$Mg_2B_6O_{11} \cdot 15H_2O$	5.66x	3.26x	5.01 ₉	11- 583
*	Indialite syn	$Mg_2Al_4Si_5O_{18}$	8.48x	3.03 ₉	3.14 ₇	13- 293
o	Indigirite	$Mg_2Al_2(CO_3)_4(OH)_2 \cdot 15H_2O$	5.80x	7.62 ₉	5.24 ₉	25- 510
i	Indite	$FeIn_2S_4$	3.20x	1.88 ₉	2.05 ₇	16- 170
*	Indium syn	In	2.72x	2.30 ₄	1.68 ₂	5- 642
i	Inesite	$Ca_2Mn_7Si_{10}O_{28}(OH)_2 \cdot 6H_2O$	9.16x	2.92 ₈	2.84 ₈	21- 151
i	Innelite	$Na_2Ba_4MgTi_3Si_4O_{18}SO_4OH$	3.92x	3.04 ₈	2.95 ₆	15- 71
i	Insizwaite	$Pt(Bi,Sb)_2$	2.00x	2.96 ₈	2.70 ₈	25- 612
*	Inyoite syn	$CaB_3O_3(OH)_3 \cdot 4H_2O$	3.03x	7.59 ₇	2.29 ₃	6- 361
*	Iodargyrite syn	AgI	3.75x	2.30 ₉	3.98 ₆	9- 374
i	Iowaite	$Mg_4Fe(OH)_8OCl \cdot xH_2O$	8.11x	4.05 ₄	2.36 ₃	20- 500
i	Iranite	$Pb_{10}Cu(CrO_4)_6(SiO_4)_2(FOH)_2$	3.60x	3.49x	3.28x	15- 683
i	Iraqite	$K(LaCeTh)_2(CaLa)_3Si_{16}O_{40}$	5.28x	3.31x	2.64x	29- 995
i	Irarsite	$(Ir,Ru)As_5S$	3.32x	2.87x	1.74x	19- 591
i	Irhtemite	$Ca_4MgH_2(AsO_4)_4 \cdot 4H_2O$	2.97x	3.24 ₉	2.82 ₉	25- 158
i	Iridarsenite syn	$IrAs_2$	3.90x	2.83 ₅	2.78 ₅	14- 411
*	Iridium syn	Ir	2.22x	1.92 ₅	1.16 ₅	6- 598
i	Iridosmine	(Os,Ir,Ru)	2.13x	1.22x	1.35 ₆	2-1194
i	Irriginite	$U(MoO_4)_2(OH)_2 \cdot 2H_2O$	6.35x	3.21x	2.62 ₆	18-1426
i	Irriginite syn	$U(MoO_4)_2(OH)_2 \cdot 2H_2O$	3.23x	5.29 ₃	3.13 ₃	29-1372
i	Iron, rhodian	$(Fe,Rh)_{1-8}Ir_{0-2}$	2.12x	1.22 ₈	1.49 ₃	25-1408
*	Iron syn	$\alpha-Fe$	2.03x	1.17 ₃	1.43 ₃	6- 696
i	Isoferroplatinum syn	Pt_3Fe	2.23x	1.93 ₉	1.37 ₉	29- 716
i	Isokite	$CaMgPO_4F$	3.19x	3.02x	2.63x	7- 406
i	Isomertieite	$(Pd,Cu)_3(Sb,As)_2$	2.17x	2.36 ₉	1.53 ₇	26- 833
i	Isostannite syn	Cu_2FeSnS_4	3.12x	1.92 ₈	1.63 ₅	24- 366
i	Itoite	$Pb_3GeO_2(SO_4)_2(OH)_2$	2.07x	3.33 ₉	3.00 ₉	12- 641
i	Ixiolite	$(Ta,Fe,Sn,Nb,Mn)O_2$	2.98x	3.65 ₃	1.46 ₃	15- 733
*	Jacobsite syn	$MnFe_2O_4$	2.56x	1.50 ₄	3.01 ₄	10- 319
*	Jadeite	$NaAlSi_2O_6$	2.83x	2.92 ₈	4.29 ₅	22-1338
i	Jagoite	$Pb_3FeSi_3O_{10}(Cl,OH)$	3.40x	2.80 ₆	4.16 ₅	12- 225
i	Jagowerite	$BaAl_2(PO_4)_2(OH)_2$	3.00x	3.26 ₆	2.94 ₆	26- 136
c	Jagowerite	$BaAl_2(PO_4)_2(OH)_2$	3.26x	3.14 ₈	3.00 ₈	28- 123
i	Jahnsite	$CaMg_2MnFe_2(PO_4)_4(OH)_2 \cdot 8H_2O$	9.27x	2.83 ₈	4.91 ₆	26-1062
i	Jalpaite syn	Ag_3CuS_2	2.80x	2.75x	2.43x	12- 207
i	Jamborite	$(Ni,Fe,Co)(OH)_2(OH,S,H_2O)$	7.78x	2.59 ₆	1.53 ₅	25-1363
i	Jamesonite	$FePb_4Sb_4S_{14}$	3.43x	3.70 ₄	2.81 ₄	13- 461
i	Janggunite	$Mn_3-x(Mn,Fe)O_6(OH)_6$	9.34x	7.09x	3.55x	29- 889
i	Jarlite	$NaSr_3Al_3F_{16}$	2.98x	3.19 ₉	2.15 ₇	5- 594
i	Jarlite, calcian	$Na(Sr,Ca)_3Al_3F_{16}$	2.96x	3.14 ₉	2.14 ₈	5- 595
*	Jarosite syn	$KFe_3(SO_4)_2(OH)_6$	3.08x	3.11 ₈	5.09 ₇	22- 827
*	Jennite	$Ca_9H_2Si_6O_{18}(OH)_8 \cdot 6H_2O$	10.5x	2.92 ₈	3.04 ₆	18-1206
i	Jeremejevite	$AlBO_3$	4.27x	1.39x	2.19 ₉	8- 183
i	Jeremejevite syn	$Al_6B_5O_{15}(OH)_3$	4.29x	3.80x	2.81x	25- 10
i	Jimboite syn	$Mn_3(BO_3)_2$	2.78x	2.59 ₅	2.33 ₄	19- 781
i	Joaquinite	$Ba_2NaCe_2FeTiSi_6O_{26}OH$	2.94x	4.43x	2.89 ₉	26-1034
*	Joesmithite	$Ca_3(MgFe)_5(SiBe)_8O_{22}(OH)_2$	3.33x	2.56 ₆	2.53 ₆	22- 531
*	Johachidolite	$CaAlB_2O_7$	2.63x	1.96 ₅	2.43 ₃	29- 280
i	Johannite	$Cu(UO_2)_2(SO_4)_2(OH)_2 \cdot 6H_2O$	7.73x	6.16 ₉	3.41 ₈	17- 530
i	Johannsenite	$(Ca,Mn)SiO_3$	3.02x	2.55 ₈	2.60 ₆	18- 299
i	Joliotite	$(UO_2)CO_3 \cdot 2H_2O$	8.09x	3.42 ₉	3.18 ₈	29-1378
i	Jonesite	$K_2Ba_4Ti_4Al_2Si_{10}O_{36} \cdot 6H_2O$	13.0x	3.03 ₅	2.65 ₃	29- 983
i	Jordanite syn	$Pb_{14}As_6S_{23}$	3.18x	3.53 ₇	3.70 ₆	21- 466
o	Joseite A	Bi_4TeS_2	3.08x	2.25 ₄	4.42 ₃	22- 364
i	Joseite A	Bi_4TeS_2	3.08x	2.24 ₅	2.11 ₅	12- 735
i	Joseite B	$Bi_4(Te,S,Se)_{1-x}$	3.16x	2.17 ₅	2.30 ₄	9- 435
i	Jouravskite	$Ca_3Mn(CO_3)(SO_4)(OH)_6 \cdot 12H_2O$	9.60x	5.53 ₆	3.81 ₆	18- 668
i	Juanite	$Ca_9Mg_3(Si,Al)_{12}O_{36} \cdot 7H_2O$	3.27x	2.98x	1.93x	29- 335
c	Julgoldite	$Ca_2Fe_3(Si_3O_{11})(OH)_2 \cdot H_2O$	2.95x	3.83 ₉	2.57 ₈	23- 117
i	Julgoldite	$Ca_2Fe_3Si_3O_{11}(OH)_2 \cdot H_2O$	2.95x	3.84 ₈	4.80 ₇	24- 198
i	Julienite	$Na_2Co(SCN)_4 \cdot 8H_2O$	3.55x	3.23x	1.38x	2- 372
i	Junitoite	$CaZn_2Si_2O_7 \cdot H_2O$	3.53x	2.82x	2.54x	29- 394
i	Junoitte	$Cu_2Pb_3Bi_6(S,Se)_{16}$	3.55x	3.90 ₈	2.92 ₇	29- 564

MINERAL NAMES

MINERAL NAMES					File No.	
	Jurbanite	AlSO ₄ OH.5H ₂ O	3.72x	4.01 ₉	6.80 ₈	29- 89
	Jurbanite syn	Al ₂ S ₂ O ₉ .11H ₂ O	6.75x	5.73x	4.48x	17- 388
o	Jusite	(CaKNaH ₃ O)(SiAl)O ₂ .H ₂ O	3.06x	2.95 ₇	2.80 ₇	20- 544
o	Jusite	(Ca,Na,K) ₂ (Si,Al) ₆ O ₁₅ .5H ₂ O	2.81x	2.30 ₄	3.64 ₃	12- 186
*	Kaersutite	Ca ₂ NaMg ₃ (Si,Ti) ₆ O ₂₂ (OH) ₂	2.69x	3.11 ₈	8.38 ₇	17- 478
o	Kafehydrocyanite	K ₄ Fe(CN) ₆ .H ₂ O	2.93x	4.80 ₈	2.21 ₈	25-1354
	Kafehydrocyanite syn	K ₄ Fe(CN) ₆ .3H ₂ O	2.93x	2.81 ₃	8.43 ₃	14- 695
i	Kahlerite syn	Fe(UO ₂) ₂ (AsO ₄) ₂ .12H ₂ O	3.53x	11.1 ₈	5.55 ₃	17- 145
c	Kainite	KMg(SO ₄)Cl.2.75H ₂ O	7.37x	3.08 ₉	7.77 ₈	25-1237
o	Kainite syn	KMg(SO ₄)Cl.3H ₂ O	4.66x	4.54x	3.02x	25- 660
i	Kainosite	Ca ₂ La ₂ Si ₄ O ₁₂ CO ₃ .H ₂ O	6.50x	2.76x	3.29 ₈	14- 332
	Kaliborite	KMg ₂ B ₁₂ O ₁₃ (OH) ₁₁ .4H ₂ O	7.22x	6.22x	3.10 ₇	18- 669
*	Kalincinite syn	KHCO ₃	3.67x	2.63 ₉	2.86 ₉	12- 292
	Kalinite	KAl(SO ₄) ₂ .11H ₂ O	4.83x	4.32x	4.11x	17- 133
*	Kaliophilite	KAlSiO ₄	3.09x	2.59 ₃	2.13 ₃	11- 313
*	Kalistrontite syn	K ₂ Sr(SO ₄) ₂	3.13x	2.73 ₇	2.06 ₃	29-1049
*	Kalsilite syn	KAlSiO ₄	3.12x	2.58 ₅	3.97 ₅	11- 579
	Kanemite	NaHSi ₂ O ₄ (OH) ₂ .2H ₂ O	10.3x	4.01x	3.44 ₉	25-1309
i	Kankite	FeAsO ₄ .3.5H ₂ O	12.8x	4.76 ₄	2.63 ₃	29- 694
i	Kanoite	(Mn,Mg) ₂ (Si ₂ O ₆)	3.21x	3.02 ₉	2.91 ₉	29- 865
	Kaolinite, 1Md	Al ₂ Si ₂ O ₅ (OH) ₄	7.10x	3.56x	4.41 ₆	29-1488
*	Kaolinite, 1T	Al ₂ Si ₂ O ₅ (OH) ₄	7.17x	1.49 ₉	3.58 ₈	14- 164
	Kaolinite-Smectite	Al-Si-O-OH-H ₂ O	7.24x	4.31 ₇	3.55 ₇	29-1490
	Karelianite syn	V ₂ O ₃	1.69x	2.70 ₈	3.65 ₆	26- 278
i	Karibibite	Fe ₂ As ₄ O ₉	2.38x	3.18 ₈	2.80 ₈	25-1405
	Karpatite syn	C ₆ H ₂ (C ₄ H ₂) ₄ C ₂ H ₂	9.50x	7.43x	3.49 ₆	28-2007
	Karpatite syn	C ₆ H ₂ (C ₄ H ₂) ₄ C ₂ H ₂	9.40x	3.51 ₉	7.52 ₈	28-2008
i	Kasolite	Pb(UO ₂) ₂ SiO ₄ .H ₂ O	2.92x	3.06 ₈	4.21 ₆	29- 788
o	Kassite	CaTi ₂ O ₄ (OH) ₂	3.31x	1.76x	4.78 ₅	20- 243
i	Katoptrite	(MnMg) ₁₃ Al ₄ Sb ₂ Si ₂ O ₂₈	2.96x	8.88 ₇	2.60 ₅	19- 274
	Katoptrite	Mn ₁₄ Sb ₂ (Al,Fe) ₄ O ₂₁ (SiO ₄) ₂	2.94x	4.42 ₃	2.78 ₃	14- 338
i	Kawazulite	Bi ₂ Te ₂ Se	3.12x	2.31 ₃	2.12 ₅	29- 248
i	Kazakovite	Na ₉ TiH ₂ Si ₆ O ₁₈	2.60x	2.52 ₈	1.82 ₈	26-1385
	Kegelite	Pb ₁₂ Zn ₂ Al ₄ Si ₁₁ S ₄ O ₅₄	7.04x	3.01x	3.83 ₈	29- 790
	Kehoeite	(Zn,Ca)Al ₂ P ₂ H ₆ O ₁₂ .3H ₂ O	3.35x	2.97 ₇	1.91 ₆	27- 94
i	Keldyshite	(Na,H) ₂ ZrSi ₂ O ₇	2.91x	4.16 ₇	2.70 ₇	24-1097
i	Kellyite, 2H	(Mn,Al) ₃ (Si,Al) ₂ O ₅ (OH) ₄	3.51x	7.00 ₉	2.53 ₆	29- 885
i	Kemmlitzite-(RE)	(SrLa)Al ₃ (OH) ₄ (AsO ₄) ₂ SO ₄	2.96x	3.51 ₉	1.90 ₉	22-1248
i	Kempite	Mn ₂ (OH) ₃ Cl	2.39x	5.70 ₈	5.36 ₇	25-1158
i	Kennedyite	Fe ₂ MgTi ₃ O ₁₀	3.49x	4.88 ₈	2.74 ₀	13- 353
i	Kentralite, ferroan	Pb ₂ (Mn,Fe) ₂ Si ₂ O ₉	2.90x	2.86x	2.74x	20- 586
	Kentralite syn	Pb ₂ Mn ₂ Si ₂ O ₉	2.89x	2.73x	2.86 ₈	20- 587
i	Kenyaite	NaSi ₁₁ O _{20.3} (OH) ₄ .3H ₂ O	19.7x	3.43 ₉	3.20 ₆	20-1157
i	Kermesite	Sb ₂ OS ₂	2.92x	3.13 ₉	2.69 ₇	11- 91
*	Kernite	Na ₂ B ₄ O ₆ (OH) ₂ .3H ₂ O	7.40x	6.64 ₉	3.25 ₄	25-1322
i	Kerstenite syn	PbSeO ₄	3.03x	3.36 ₀	3.25 ₈	15- 682
i	Kesterite	Cu ₂ (Zn,Fe)SnS ₄	3.15x	1.93 ₇	1.65 ₅	21- 883
i	Kesterite syn	Cu ₂ ZnSnS ₄	3.13x	1.92 ₉	1.64 ₅	26- 575
i	Kettnerite	CaBi(CO ₃)OF	2.89x	1.73 ₉	1.59 ₉	25- 126
i	Keyite	(Cu,Zn,Cd) ₃ (AsO ₄) ₂	2.80x	3.29 ₉	2.88 ₉	29- 255
i	Khademite	Al(SO ₄)(OH).5H ₂ O	4.25x	4.18 ₇	2.73 ₆	26-1011
c	Khibinskite syn	K ₂ ZrSi ₂ O ₇	3.00x	2.77 ₈	4.31 ₆	24- 710
i	Khinite	Cu ₃ PbTeO ₄ (OH) ₆	2.49x	3.45 ₉	4.87 ₈	29-1419
i	Kidwellite	Fe-PO ₄ -OH	3.19x	9.49 ₉	3.43 ₀	22- 630
i	Kieserite	MgSO ₄ .H ₂ O	3.41x	4.84 ₉	3.33 ₉	13- 102
*	Kilchoanite syn	Ca ₆ (SiO ₄)(Si ₃ O ₁₀)	2.88x	2.67 ₇	3.05 ₆	29- 370
c	Killalaite	Ca ₃₋₂ (H _{0.6} Si ₂ O ₇)(OH)	2.82x	3.09 ₃	2.71 ₄	29- 332
	Killalaite	2Ca ₃ Si ₂ O ₇ .H ₂ O	2.82x	3.03 ₈	2.72 ₆	26-1070
i	Kimzeyite	Ca ₃ (ZrFeTi) ₂ (AlSiFe) ₃ O ₁₂	1.67x	2.54 ₉	2.79 ₈	13- 130
i	Kingite	Al ₃ (PO ₄) ₂ (OH) ₃ .9H ₂ O	9.10x	3.45 ₈	3.48 ₇	24- 10
*	Kinoite	Ca ₂ Cu ₂ Si ₃ O ₁₀ .2H ₂ O	4.72x	3.05 ₈	6.44 ₈	23- 946
*	Kinoshitalite, 1M	BaMg ₃ Al ₂ Si ₂ O ₁₀ (OH) ₂	3.37x	2.52 ₆	2.02 ₆	29- 180
*	Kirschsteinite syn	CaFeSiO ₄	2.96x	2.61x	2.69 ₉	11- 477
i	Kitkaite	NiSeTe	2.73x	2.01 ₅	1.51 ₄	18- 896
i	Kivuite	ThU ₄ P ₂ O ₁₄ (OH) ₁₀ .7H ₂ O	10.3x	7.96 ₉	3.08 ₈	13- 419
*	Kladnoite syn	C ₆ H ₄ (CO) ₂ NH	5.70x	6.35x	3.28 ₃	28-2013
	Kleinite syn	Hg ₂ Cl(N,SO ₄).0.3H ₂ O	2.91x	2.62x	3.88 ₈	2- 745
i	Klockmannite	CuSe	2.88x	3.18 ₉	1.97 ₈	6- 427
i	Knorringtonite	Mg ₃ Cr ₂ (SiO ₄) ₃	2.92x	2.61x	2.38 ₈	25- 514
i	Koashvite	Na ₆ CaTiSi ₆ O ₁₈	2.58x	1.82 ₇	3.66 ₅	27- 669
	Kobeite	(Y,Fe)(Ti,Nb) ₂ (O,OH) ₆	4.16x	3.74 ₆	3.13 ₆	11- 259
	Kobellite	Pb ₃ (Bi,Sb) ₈ S ₁₇	3.51x	3.38x	2.13 ₆	8- 122
*	Koehlinite syn	Bi ₂ MoO ₆	3.15x	1.65 ₂	2.74 ₂	21- 102
o	Koenenite	Mg ₃ Al ₄ O ₁₁ .1.5H ₂ O	11.7x	10.7x	1.92x	11- 492
i	Kogarkoite syn	Na ₃ FSO ₄	3.48x	2.99 ₉	2.72 ₉	25- 827
	Koktaite	(NH ₄) ₂ Ca(SO ₄) ₂ .H ₂ O	9.83x	3.30 ₇	4.96 ₄	11- 475
	Kolbeckite	ScPO ₄ .2H ₂ O	4.88x	4.51x	2.90 ₉	2- 177
	Kolovratite	Zn-Ni-V-O-OH	11.6x	5.83x	3.88x	15- 102
	Kolweizite	(Cu,Co) ₂ (CO ₃)(OH) ₂	3.70x	6.04 ₈	5.08 ₈	29-1416
i	Komarovite	(Ca,Mn)Nb ₂ Si ₂ O ₇ O ₃ .3.5H ₂ O	3.16x	12.2 ₇	1.78 ₅	25- 163

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File No.

i	Koninckite	(Fe,Al)PO ₄ ·3H ₂ O	8.42x	3.77 ₃	2.98 ₂	22- 339
i	Kornelinite	Fe ₃ (SO ₄) ₂ ·15H ₂ O	10.0x	6.64 ₈	4.67 ₈	17- 159
*	Kornerupine	Mg ₃ Al ₆ (SiAlB) ₃ O ₂₁ (OH)	3.01x	2.62x	2.10 ₆	29- 852
o	Korzhinskite	CaB ₂ O ₄ ·H ₂ O	2.02x	3.11 ₇	2.81 ₇	16- 366
o	Kostovite	AuCuTe ₄	3.03x	2.10 ₉	2.93 ₆	18- 569
i	Kotoite syn	Mg ₃ (BO ₃) ₂	2.67x	2.23x	2.18x	5- 648
i	Kottigite syn	Zn ₃ (AsO ₄) ₂ ·8H ₂ O	3.20x	3.00x	2.72 ₅	1- 744
o	Kotulskite, bismuthian	Pd _{1-x} (Te,Bi)	3.05x	2.24 ₉	2.09 ₉	15- 394
i	Kotulskite syn	PdTe	2.22x	3.02 ₆	2.07 ₆	29- 971
i	Koutekite	Cu ₃ As ₂	2.09x	2.02x	2.00x	29- 534
i	Koutekite syn	Cu ₃ As ₂	2.08x	2.02x	1.99x	13- 581
i	Kozulite	Na ₃ (MnMg) ₃ Si ₆ O ₂₂ (OH) ₂	8.51x	3.15 ₇	2.83 ₃	25- 850
i	Kraisslite	Mn ₆ Zn(AsO ₄) ₂ (SiO ₄) ₂ (OH) ₃	2.74x	2.44 ₆	2.19 ₆	29-1432
i	Kratohvilite syn	C ₆ H ₄ CH ₂ C ₆ H ₄	4.68x	3.38 ₉	4.21 ₇	28-2011
i	Kratohvilite syn	C ₆ H ₄ CH ₂ C ₆ H ₄	4.59x	3.35 ₉	4.15 ₈	28-2010
i	Krausite	KFe(SO ₄) ₂ ·H ₂ O	3.09x	4.40 ₈	6.59 ₇	18-1028
*	Krauskopfite	BaSi ₂ O ₅ ·3H ₂ O	3.84x	6.36 ₅	5.34 ₅	18- 192
i	Krautite syn	MnHAsO ₄ ·H ₂ O	3.86x	3.30x	3.27x	29- 888
*	Kremersite syn	(NH ₄ ,K) ₂ FeCl ₃ ·H ₂ O	2.80x	5.72 ₈	2.45 ₇	28- 734
i	Krennerite	(Au,Ag)Te ₂	3.03x	2.11 ₇	2.94 ₆	8- 20
i	Kribergite	Al ₃ (PO ₄) ₃ SO ₄ (OH) ₄ ·4H ₂ O	11.6x	5.02 ₃	6.62 ₂	20- 48
i	Krinovite	NaMg ₂ CrSi ₂ O ₁₀	2.50x	2.66 ₉	2.89 ₆	20-1123
*	Krohnkite syn	Na ₂ Cu(SO ₄) ₂ ·2H ₂ O	6.32x	3.28 ₈	2.93 ₇	25- 826
*	Krupkaite	CuPbBi ₃ S ₆	3.14x	2.84 ₄	3.65 ₃	29- 563
i	Krutaite	CuSe ₂	2.71x	3.02 ₉	2.48 ₈	25- 309
i	Krutovite	Ni _{1-x} As ₂	2.59x	2.37 ₈	1.75 ₈	29- 928
i	Kryzhanovskite	MnFe ₂ (PO ₄) ₂ (OH) ₂ ·H ₂ O	3.16x	5.00 ₇	4.70 ₅	24- 731
i	Ktenasite	(Cu,Zn) ₃ (SO ₄) ₂ (OH) ₆ ·6H ₂ O	11.8x	4.85 ₉	5.93 ₉	29- 591
*	Kulanite	Ba(FeMnMg) ₂ Al ₂ (PO ₄) ₃ (OH) ₃	3.11x	2.93 ₉	3.04 ₇	29- 170
i	Kullerudite	NiSe ₂	2.64x	2.55x	2.94 ₈	18- 886
o	Kupletskite	K ₂ (Mn,Fe) ₄ TiSi ₄ O ₁₄ (OH,F) ₂	3.51x	2.64x	2.57 ₅	25- 6
o	Kuranakhite	PbMnTeO ₆	3.40x	2.56 ₆	2.05 ₅	29- 779
i	Kurchatovite	Ca(Mg,Mn)B ₂ O ₅	2.78x	1.92 ₉	2.67 ₈	19- 648
o	Kurgantaite	(Ca,Sr) ₂ B ₄ O ₇ (OH) ₂	3.17x	2.82 ₉	2.51 ₈	18- 671
*	Kurnakovite	Mg ₂ B ₄ O ₁₁ ·15H ₂ O	7.18x	3.47x	2.68x	24- 701
i	Kurnakovite	MgB ₃ O ₃ (OH) ₅ ·5H ₂ O	7.22x	4.90 ₉	4.21 ₈	29- 856
i	Kurumsakite	(ZnNi) ₈ Al ₈ V ₂ Si ₃ O ₃₅ ·27H ₂ O	1.53x	3.91 ₈	2.61 ₅	29- 571
i	Kusuite	(Ce,Pb)VO ₄	3.68x	2.77 ₉	1.89 ₇	29- 398
i	Kutinaite syn	Cu ₂ AgAs	2.27x	2.08x	2.70 ₉	23- 957
*	Kutnohorite	Ca(Mn,Mg)(CO ₃) ₂	2.94x	1.81 ₃	1.84 ₃	11- 345
i	Kutnohorite, calcian	Ca ₇₋₄ (Mn,Mg) ₂₆ CO ₃	2.98x	1.84 ₆	2.25 ₅	19- 234
*	Kutnohorite, magnesian	(Ca _{0.97} Mn _{0.5} Mg _{0.5})(CO ₃) ₂	2.91x	1.80 ₁	2.21 ₁	20- 225
*	Kyanite	Al ₂ SiO ₅	3.18x	1.38 ₈	3.35 ₇	11- 46
i	Labuntsovite	(KBa)(TiNb)(SiAl) ₂ O ₇ ·H ₂ O	3.15x	2.56 ₉	1.54 ₉	9- 498
i	Laffittite	AgHgAsS ₃	2.68x	3.20 ₈	3.01 ₈	29-1144
i	Laitakarite	Bi ₄ Se ₂ S	3.07x	2.25 ₈	2.11 ₈	14- 220
i	Lamprophyllite	Na ₂ (SrBe) ₂ Ti ₃ (SiO ₄) ₄ OH ₂	2.77x	3.43 ₆	2.13 ₅	17- 751
*	Lanarkite	Pb ₂ (SO ₄)O	2.95x	3.33 ₈	2.85 ₃	18- 702
o	Landauite	NaMnZn ₂ (Ti,Fe) ₄ Ti ₁₂ O ₃₈	2.83x	2.11 ₉	1.78 ₈	18- 672
i	Landesite	Mn ₃ Fe(PO ₄) ₂ (OH) ₃ ·3H ₂ O	3.21x	5.10 ₈	4.28 ₈	16- 603
i	Langbanite	(Mn,Ca) ₄ (Mn,Fe) ₉ SbSi ₂ O ₂₄	2.55x	2.74 ₉	2.80 ₈	14- 195
*	Langbeinite syn	K ₂ Mg ₂ (SO ₄) ₃	3.14x	2.65 ₄	4.05 ₃	19- 974
i	Langisite	(Ca,Ni)As	2.63x	1.97 ₉	1.77 ₈	24- 333
i	Langite	Cu ₄ SO ₄ (OH) ₆ ·H ₂ O	7.12x	3.56 ₈	2.49 ₆	12- 783
i	Lanthanite syn	La ₂ (CO ₃) ₃ ·8H ₂ O	8.61x	4.27 ₅	3.07 ₂	25-1400
i	Laplandite	Na ₄ CeTiP ₂ Si ₂ O ₂₂ ·5H ₂ O	7.27x	3.76x	3.35x	27- 673
i	Lardarellite	NH ₄ B ₃ O ₆ (OH) ₄	4.70x	2.92x	2.89x	12- 633
*	Larnite syn	Ca ₂ SiO ₄	2.80x	2.74x	2.78 ₉	9- 351
c	Larnite syn	β-Ca ₂ SiO ₄	2.73x	2.78 ₈	2.71 ₈	29- 371
i	Larosite	(Cu,Ag) ₂ (Pb,Bi) ₂ S ₁₃	1.98x	2.92 ₄	2.85 ₆	25- 311
*	Larsenite syn	PbZnSiO ₄	3.19x	2.85 ₉	4.88 ₈	20- 607
i	Latiumite	(CaK) ₄ (Si,Al) ₃ O ₁₁ (SO ₄ ,CO ₃)	2.86x	3.06 ₉	2.96 ₉	8- 174
c	Latiumite	(CaK) ₄ (Si,Al) ₃ O ₁₁ (SO ₄ ,CO ₃)	2.84x	2.95 ₉	2.86 ₆	25-1202
i	Latrappite	(Ca,Na)(Nb,Ti,Fe)O ₃	2.74x	3.89 ₉	1.94 ₆	16- 694
i	Laubmannite	(Fe,Mn) ₃ Fe ₆ (PO ₄) ₄ (OH) ₁₂	3.22x	3.18x	2.11 ₆	15- 541
i	Laubmannite	Fe ₉ (PO ₄) ₄ (OH) ₁₅	5.15x	15.3 ₉	3.72 ₇	22- 283
i	Laueite	MnFe ₂ (PO ₄) ₂ (OH) ₂ ·8H ₂ O	9.91x	3.28 ₉	4.95 ₈	14- 246
*	Laumontite syn	CaAl ₂ Si ₄ O ₁₂ ·4H ₂ O	4.16x	3.51 ₈	9.50 ₆	26-1047
i	Launayite	Pb ₂₂ Sb ₂₆ S ₆₁	3.45x	4.17 ₈	2.92 ₈	20- 568
*	Laurionite syn	Pb(OH)Cl	3.30x	4.01 ₉	2.52 ₇	6- 268
i	Laurite syn	RuS ₂	2.81x	1.69x	3.24 ₈	19-1107
*	Lautarite syn	Ca(IO ₃) ₂	3.16x	3.43 ₉	3.49 ₇	28- 221
i	Lautite	CuAsS	3.10x	1.90 ₈	1.61 ₆	12- 738
c	Lautite	CuAsS	3.11x	3.09 ₉	1.91 ₄	25-1179
i	Lavendulan	NaCaCu ₅ (AsO ₄) ₄ Cl ₅ ·5H ₂ O	9.77x	3.11 ₇	4.87 ₅	11- 351
i	Lavenite	(Na,Ca,Mn) ₃ Zr(SiO ₄) ₂ F	2.89x	2.81 ₉	3.22 ₅	14- 586
i	Lawrencite syn	FeCl ₂	2.54x	5.90 ₆	1.80 ₆	1-1106
*	Lawsonite	CaAl ₂ Si ₂ O ₇ (OH) ₂ ·H ₂ O	2.62x	1.55 ₈	2.73 ₇	13- 533
*	Lawsonite syn	CaAl ₂ Si ₂ O ₇ (OH) ₂ ·H ₂ O	2.72x	2.62 ₇	2.13 ₇	13- 567
i	Lazulite	(Mg,Fe)Al ₂ (PO ₄) ₂ (OH) ₂	3.07x	3.14x	6.15 ₈	14- 137

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	Lazurite	$(\text{NaCa})_8(\text{AlSiO}_4)_6(\text{SO}_4)_{1-2}$	3.71x	2.62 ₈	2.87 ₅	17- 749
*	Lead syn	Pb	2.86x	2.48 ₅	1.49 ₃	4- 686
i	Leadhillite	$\text{Pb}_4(\text{SO}_4)(\text{CO}_3)_2(\text{OH})_2$	3.53x	2.92 ₆	2.61 ₅	18- 705
i	Lecontite	$(\text{K}, \text{NH}_4)\text{NaSO}_4 \cdot 2\text{H}_2\text{O}$	4.64x	3.04 ₉	5.06 ₈	15- 370
i	Lecontite syn	$\text{NaNH}_4\text{SO}_4 \cdot 2\text{H}_2\text{O}$	5.07x	3.80x	3.03 ₉	15- 283
*	Legrandite	$\text{Zn}_2(\text{AsO}_4)(\text{OH}) \cdot \text{H}_2\text{O}$	4.08x	6.68 ₇	5.93 ₇	16- 607
i	Leifite	$\text{Na}_2\text{AlSi}_3\text{O}_{12}(\text{F}, \text{OH})$	3.13x	3.34 ₇	2.45 ₇	18- 710
c	Leifite	$\text{Na}_6\text{Si}_6\text{Al}_2\text{Be}_2\text{H}_2\text{O}_{41} \cdot 1.5\text{H}_2\text{O}$	3.15x	3.38 ₇	4.70 ₄	27- 1
i	Leightonite	$\text{K}_2\text{Ca}_2\text{Cu}(\text{SO}_4)_4 \cdot 2\text{H}_2\text{O}$	2.90x	3.18 ₆	1.78 ₃	15- 128
*	Leiteite	$(\text{Zn}, \text{Fe})\text{As}_2\text{O}_4$	3.13x	3.16 ₆	1.69 ₅	29- 740
i	Lemoynite	$(\text{Na}, \text{K})_2\text{CaZr}_2\text{Si}_{10}\text{O}_{26} \cdot 5\text{H}_2\text{O}$	8.01x	3.56 ₅	2.81 ₅	24-1072
i	Lengenbachite	$(\text{Ag}, \text{Cu})_2\text{Pb}_6\text{As}_4\text{S}_{13}$	3.06x	2.84 ₉	4.60 ₃	14- 418
i	Lenoblite	$\text{V}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$	4.59x	3.72 ₉	2.53 ₈	23- 727
i	Leonite	$\text{K}_2\text{Mg}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$	3.42x	3.04 ₅	2.38 ₅	21- 995
*	Leonite syn	$\text{K}_2\text{Mg}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$	5.87x	2.37 ₅	1.95 ₅	17- 134
i	Lepidocrocite	$\gamma\text{-FeO}(\text{OH})$	6.26x	3.29 ₉	2.47 ₈	8- 98
i	Lepidolite, ferroan, 1M	$\text{K}(\text{LiAlFe})_3\text{Si}_4\text{O}_{10}(\text{FOH})_2$	9.90x	3.30 ₇	2.58 ₄	14- 565
i	Lepidolite, 1M	$\text{K}(\text{LiAl})_3(\text{SiAl})_4\text{O}_{10}(\text{OH})_2$	3.34x	10.0 ₈	4.99 ₈	10- 485
i	Lepidolite, 2M ₁	$\text{K}(\text{Li}, \text{Al})_3(\text{Si}, \text{Al})_4\text{O}_{10}(\text{FOH})_2$	2.59x	2.56x	1.50x	24- 594
i	Lepidolite, 2M ₂	$\text{K}(\text{LiAl})_3(\text{SiAl})_4\text{O}_{10}\text{F}_2$	2.58x	1.99 ₈	10.0 ₆	14- 11
i	Lepidolite, 3M	$\text{K}(\text{LiAl})_3(\text{SiAl})_4\text{O}_{10}(\text{OH})_2$	9.93x	3.33x	2.61 ₈	10- 483
i	Lepidolite, 12O	$\text{KLi}_3\text{Al}_3\text{O}_{10}(\text{OH})_2$	3.31x	2.59x	1.98x	15- 62
i	Lepidolite, 3T	$\text{K}(\text{Li}, \text{Al})_3(\text{Al}, \text{Si})\text{O}_{10}(\text{F}, \text{OH})_2$	3.32x	2.58 ₈	10.0 ₅	10- 484
i	Letovicite syn	$(\text{NH}_4)_3\text{H}(\text{SO}_4)_2$	4.95x	4.98 ₉	3.77 ₈	21- 25
i	Leucite	KAlSi_2O_6	3.27x	3.44 ₉	5.39 ₈	15- 47
i	Leucophanite	$\text{NaCaBeSi}_2\text{O}_6(\text{OH}, \text{F})$	2.75x	3.60 ₅	2.97 ₅	18- 711
c	Leucophanite	$\text{NaCaBeFSi}_2\text{O}_6$	2.76x	3.60 ₄	2.97 ₃	22-1362
*	Leucophenite	$\text{Mn}_7(\text{SiO}_4)_3(\text{OH})_2$	1.81x	2.88 ₉	2.68 ₈	22-1168
i	Leucophosphate	$\text{KFe}_2(\text{PO}_4)_2 \cdot \text{OH} \cdot 2\text{H}_2\text{O}$	6.79x	5.99 ₇	3.06 ₇	9- 446
i	Leucophyllite, 1M	$\text{KMgAlSi}_4\text{O}_{10}(\text{OH})_2$	4.50x	9.91 ₉	2.56 ₈	21- 993
i	Leucosphenite	$\text{Na}_3\text{BaB}_3\text{Ti}_3\text{Si}_{10}\text{O}_{30}$	4.22x	8.45 ₉	3.37 ₇	25- 784
*	Levyne	$\text{Ca}_3\text{Al}_{15}\text{Si}_{11}\text{O}_{36} \cdot x\text{H}_2\text{O}$	4.08x	2.81 ₆	6.69 ₃	26-1381
i	Lewisite	$(\text{Ca}, \text{Fe}, \text{Na})_2(\text{Sb}, \text{Ti})_2(\text{O}, \text{OH})_7$	2.94x	1.81x	1.55x	7- 66
i	Liandratite, heated	$\text{U}(\text{Nb}, \text{Ta})_2\text{O}_8$	3.18x	4.01 ₈	2.49 ₄	29-1435
i	Liberite syn	$\beta\text{-Li}_2\text{BeSiO}_4$	3.84x	3.72x	2.60 ₈	29- 799
i	Libethenite	$\text{Cu}_2\text{PO}_4(\text{OH})$	4.81x	2.63x	5.85 ₉	8- 107
*	Liebenbergite syn	Ni_3SiO_4	2.43x	3.47 ₉	2.74 ₉	15- 388
i	Liebigite	$\text{Ca}_2\text{UO}_2(\text{CO}_3)_3 \cdot 10\text{H}_2\text{O}$	6.81x	8.68 ₉	5.40 ₉	11- 296
i	Likasite	$\text{Cu}_6(\text{NO}_3)_2\text{PO}_4(\text{OH})_7$	5.75x	10.8 ₈	2.72 ₇	25-1421
i	Lillianite syn	$\text{Pb}_3\text{Bi}_2\text{S}_6$	3.52x	2.91 ₈	3.42 ₇	29- 763
*	Lime syn	CaO	2.41x	1.70 ₅	2.78 ₃	4- 777
i	Linarite	$\text{CuPbSO}_4(\text{OH})_2$	3.12x	3.53 ₇	1.79 ₆	4- 598
o	Lindackerite	$\text{Cu}_3\text{As}_4\text{O}_{13} \cdot 9\text{H}_2\text{O}$	10.2x	3.19 ₈	3.95 ₆	11- 166
i	Lindgrenite	$\text{Cu}_3(\text{MoO}_4)_2(\text{OH})_2$	3.50x	4.15 ₈	2.67 ₄	10- 395
i	Linnaeite	Co_3S_4	2.83x	1.67 ₈	2.36 ₇	11- 121
i	Liottite	$(\text{CaNa})_4(\text{SiAl})_6\text{O}_{12}(\text{SO}_4)_3\text{H}_2\text{O}$	3.72x	3.32 ₈	4.84 ₄	29-1187
i	Lipscombite, manganon	$(\text{Fe}, \text{Mn})_3(\text{PO}_4)_2(\text{OH})_2$	3.31x	3.21 ₆	1.66 ₄	14- 310
i	Lipscombite syn	$\text{Fe}_3(\text{PO}_4)_2(\text{OH})_2$	3.33x	3.20 ₇	1.60 ₆	14- 569
*	Liroconite	$\text{Cu}_2\text{Al}(\text{As}, \text{P})\text{O}_4(\text{OH})_4 \cdot 4\text{H}_2\text{O}$	6.52x	6.03 ₈	3.01 ₅	12- 526
o	Liskeardite	$(\text{Al}, \text{Fe})_3\text{As}_3\text{O}_4(\text{OH})_6 \cdot 5\text{H}_2\text{O}$	17.6x	3.33x	8.65 ₈	11- 146
*	Litharge syn	PbO	3.12x	2.81 ₆	1.87 ₄	5- 561
i	Lithiophilite	$\text{Li}(\text{Mn}, \text{Fe})\text{PO}_4$	2.53x	3.01 ₉	3.47 ₈	13- 336
o	Lithiophorite	$(\text{Co}, \text{Mn})\text{O}(\text{OH})$	4.75x	2.35x	1.87x	12- 647
i	Lithiophorite	$(\text{Li}, \text{Al})\text{MnO}_2(\text{OH})_2$	4.71x	2.37 ₇	1.88 ₇	16- 364
*	Lithiophosphate syn	Li_3PO_4	3.97x	3.80x	2.64 ₇	25-1030
i	Litidionite	$\text{KNaCuSi}_4\text{O}_{10}$	3.37x	2.41 ₉	3.22 ₈	29-1041
i	Liveingite	$\text{Pb}_9\text{As}_{13}\text{S}_{28}$	2.99x	4.11 ₉	3.42 ₉	29- 674
i	Livingstonite syn	HgSb_2S_8	5.20x	3.47 ₈	2.85 ₆	25- 555
i	Lizardite, aluminian, 6(2)T ₁	$(\text{Mg}, \text{Al})_3(\text{Si}, \text{Al})_2\text{O}_3(\text{OH})_4$	7.09x	2.49 ₈	3.56 ₇	13- 4
i	Lizardite, aluminian, 6(3)T ₁	$(\text{Mg}, \text{Al})_3(\text{Si}, \text{Al})_2\text{O}_3(\text{OH})_4$	7.12x	2.38 ₉	3.56 ₈	12- 583
o	Lizardite, aluminian, 1T syn	$(\text{Mg}, \text{Al})_3(\text{Si}, \text{Al})_2\text{O}_3(\text{OH})_4$	2.50x	7.25 ₆	3.62 ₄	11- 386
i	Lizardite, 6T ₁	$\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$	7.33x	3.66x	2.50x	9- 444
i	Lizardite, 1T	$\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$	7.40x	2.51x	4.60 ₉	18- 779
c	Lizardite, 1T syn	$\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$	2.50x	7.10 ₈	3.55 ₆	22-1161
i	Loellingite, nickeloan	$(\text{Fe}, \text{Ni}, \text{Co})\text{As}_2$	2.57x	2.40 ₈	1.87 ₇	25- 249
*	Loellingite syn	FeAs_2	2.61x	2.33 ₇	2.60 ₆	11- 699
*	Loeweite syn	$\text{Na}_{12}\text{Mg}_7(\text{SO}_4)_{13} \cdot 15\text{H}_2\text{O}$	10.4x	4.29 ₇	4.05 ₆	29-1241
i	Lokkaite	$\text{La}_2(\text{CO}_3)_3 \cdot \text{H}_2\text{O}$	3.81x	4.59 ₈	3.90 ₆	25- 170
i	Lomonosovite	$\text{Na}_5\text{Ti}_2\text{Si}_2\text{PO}_{13}$	2.83x	1.78 ₉	1.84 ₈	15- 155
i	Lomonosovite	$\text{Na}_5\text{Ti}_2\text{Si}_2\text{PO}_{13}$	2.80x	3.50 ₉	13.5 ₆	17- 542
i	Lonsdaleite, 2H syn	C	2.19x	2.06x	1.26 ₈	19- 268
i	Loparite syn	$\text{Ce}_2\text{Ti}_3\text{O}_{8-7}$	2.75x	1.93 ₇	1.58 ₆	20- 272
*	Lopezite syn	$\text{K}_2\text{Cr}_2\text{O}_7$	3.30x	3.47 ₉	3.66 ₉	27- 380
*	Lorandite	TiAsS_2	3.58x	3.59 ₆	2.88 ₆	19-1331
i	Lorenzenite	$\text{Na}_2\text{Ti}_2\text{Si}_2\text{O}_9$	2.74x	3.33 ₇	1.60 ₅	18-1262
i	Lorettiote syn	$\text{Pb}_7\text{O}_6\text{Cl}_2$	2.98x	2.77 ₈	1.99 ₇	6- 393
i	Loseyite	$(\text{Mn}, \text{Zn})_7(\text{OH})_{10}(\text{CO}_3)_2$	3.68x	2.63x	3.80 ₉	17- 206
i	Loughlinite	$\text{Na}_2\text{Mg}_3\text{Si}_6\text{O}_{16} \cdot 8\text{H}_2\text{O}$	12.9x	4.34 ₂	4.51 ₁	13- 310
i	Lovdarite	$(\text{Na}, \text{K})_4\text{Be}_2\text{Si}_6\text{O}_{16} \cdot 4\text{H}_2\text{O}$	3.29x	3.14x	4.96 ₉	25-1302
i	Lovozerite	$\text{Na}_3\text{ZrSi}_6(\text{O}, \text{OH})_{18}$	3.21x	5.27 ₈	3.64 ₇	28-1201

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* Ludlamite	$\text{Fe}_3(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$	3.96x	2.77x	2.54x	17- 468
i Ludlockite	$(\text{Fe,Pb})(\text{AsO}_3)_2$	8.69x	8.93 ₇	2.93 ₇	25- 398
i Ludlockite	$(\text{Fe,Pb})\text{As}_2\text{O}_6$	8.81x	2.94 ₉	3.33 ₇	29- 774
i Ludwigite	$\text{Mg}_2\text{Fe}(\text{BO}_3)_2$	5.12x	2.55 ₇	2.52 ₇	15- 797
i Lueneburgite	$\text{Mg}_3\text{B}_2(\text{OH})_4(\text{PO}_4)_2 \cdot 6\text{H}_2\text{O}$	4.98x	4.85 ₇	2.96 ₆	25-1155
i Lueshite	NaNbO_3	2.76x	3.90 ₉	1.95 ₇	19-1221
i Lueshite syn	NaNbO_3	2.74x	1.58 ₉	3.93 ₉	14- 603
i Luethite	$\text{Cu}_2\text{Al}_2(\text{AsO}_4)_2(\text{OH})_4 \cdot \text{H}_2\text{O}$	3.50x	7.21 ₇	2.51 ₅	29- 527
i Lusungite	$(\text{Sr,Pb})\text{Fe}_3(\text{PO}_4)_2(\text{OH})_5 \cdot \text{H}_2\text{O}$	2.98x	5.77 ₉	3.53 ₆	14- 58
c Luzonite, antimonian	$\text{Cu}_3(\text{As}_{0.64}\text{Sb}_{0.36})\text{S}_4$	3.07x	1.88 ₃	1.61 ₂	25- 285
i Luzonite syn	Cu_3AsS_4	3.05x	1.86 ₉	1.59 ₇	10- 450
* Macdonaldite	$\text{BaCa}_4\text{Si}_{16}\text{O}_{36}(\text{OH})_{12} \cdot 10\text{H}_2\text{O}$	6.50x	4.36 ₈	6.30 ₅	18- 163
* Macedonite syn	PbTiO_3	2.84x	2.76 ₆	3.90 ₅	6- 452
i Machatschkiite	$\text{Ca}_3(\text{AsO}_4)_2 \cdot 9\text{H}_2\text{O}$	8.59x	5.34 ₈	3.59 ₈	29- 296
i Mackayite	$\text{FeTe}_2\text{O}_5(\text{OH})$	3.33x	3.17 ₉	4.95 ₇	29- 730
* Mackinawite	Fe_9S_8	5.03x	2.97 ₈	2.31 ₈	15- 37
c Mackinawite syn	Fe_9S_8	5.05x	2.31 ₃	1.81 ₃	24- 73
i Madocite	$\text{Pb}_{17}\text{Sb}_{16}\text{S}_{41}$	3.40x	3.36 ₉	2.72 ₈	20- 567
* Magadiite	$\text{NaSi}_7\text{O}_{13}(\text{OH})_3 \cdot 3\text{H}_2\text{O}$	15.6x	3.43 ₈	3.15 ₆	24- 698
o Magbasite	$\text{KBa}(\text{MgFe})_6(\text{AlSc})\text{Si}_6\text{O}_{20}\text{F}_2$	3.63x	3.20x	2.59 ₈	18- 766
i Maghemite syn	$\gamma\text{-Fe}_2\text{O}_3$	2.51x	1.47 ₄	2.95 ₃	25-1402
i Maghemite syn	$\gamma\text{-Fe}_2\text{O}_3$	2.52x	1.48 ₅	2.95 ₃	24- 81
* Magnesio-Anthophyllite	$\text{Mg}_3\text{Si}_8\text{O}_{22}(\text{OH})_2$	3.06x	8.33 ₇	3.23 ₅	16- 401
* Magnesio-arfvedsonite	$\text{Na}_3(\text{MgFeAl})_3\text{Si}_8\text{O}_{22}(\text{FOH})_2$	3.11x	8.38 ₈	3.24 ₄	23- 495
i Magnesio-arfvedsonite	$(\text{NaCa})_3(\text{MgFe})_3\text{Si}_8\text{O}_{22}(\text{OH})_2$	3.12x	8.20 ₈	2.80 ₄	23- 310
* Magnesio-arfvedsonite, manganian, calcian	$(\text{NaCa})_2(\text{MgMnFe})_3\text{Si}_8(\text{OH})_2$	8.42x	3.13 ₉	3.27 ₃	23- 603
i Magnesioaxinite	$\text{Ca}_2\text{MgAl}_2\text{BSi}_4\text{O}_{15}(\text{OH})$	2.80x	3.44 ₇	3.14 ₇	29- 344
i Magnesioarpholite	$(\text{Mg,Fe})\text{Al}_2\text{Si}_2\text{O}_6(\text{OH})_4$	5.66x	5.02 ₅	2.59 ₅	27- 303
i Magnesiochromite, ferroan	$(\text{Mg,Fe})(\text{Cr,Al})_2\text{O}_4$	2.49x	1.47 ₇	1.59 ₆	9- 353
* Magnesiochromite syn	MgCr_2O_4	2.51x	4.81 ₇	2.08 ₆	10- 351
i Magnesiochropanite, aluminian	$\text{Mg}(\text{FeAl})_4(\text{SO}_4)_4 \cdot 20\text{H}_2\text{O}$	9.20x	18.1 ₈	5.58 ₈	20- 659
* Magnesio-cumingtonite, manganian	$(\text{Mg,Mn,Fe})_7\text{Si}_8\text{O}_{22}(\text{OH})_2$	3.07x	8.30 ₉	9.03 ₈	17- 727
i Magnesioferrite, high syn	MgFe_2O_4	2.53x	1.49 ₄	2.97 ₄	17- 465
i Magnesioferrite, low syn	MgFe_2O_4	2.53x	2.96 ₄	1.48 ₄	17- 464
* Magnesio-hornblende	$\text{Ca}_2\text{Mg}_5(\text{SiAl})_8\text{O}_{22}(\text{OH})_2$	8.40x	3.10 ₇	3.26 ₇	20- 481
* Magnesio-hornblende, ferroan	$\text{Ca}_2(\text{Mg,Fe})_5(\text{Si,Al})_8\text{O}_{22}(\text{OH})_2$	3.14x	8.51 ₆	2.72 ₄	21- 149
i Magnesioriebeckite	$(\text{NaCa})_2(\text{MgFe})_3\text{Si}_8\text{O}_{22}(\text{OH})_2$	8.45x	3.12 ₉	2.89 ₆	20- 656
c Magnesioriebeckite	$\text{Na}_2\text{Mg}_3\text{Fe}_2\text{Si}_8\text{O}_{22}(\text{OH})_2$	8.37x	2.71 ₅	3.10 ₄	29-1237
i Magnesioriebeckite	$\text{Na}_2\text{Mg}_3\text{Fe}_2\text{Si}_8\text{O}_{22}(\text{OH})_2$	3.09g	8.35x	4.23 ₂	29-1236
* Magnesioriebeckite syn	$\text{Na}_2\text{Mg}_3\text{Fe}_2\text{Si}_8\text{O}_{22}(\text{OH})_2$	8.45x	3.14 ₉	2.72 ₈	13- 499
* Magnesite syn	MgCO_3	2.74x	2.10 ₅	1.70 ₄	8- 479
i Magnesium astrophyllite	$(\text{NaK})_4(\text{FeMg})_7\text{Ti}_2\text{Si}_8\text{O}_{24}\text{O}_7$	3.38x	2.55 ₉	10.1 ₈	29-1042
i Magnesium-zippeite	$\text{Mg}_2(\text{UO}_2)_6(\text{SO}_4)_3(\text{OH})_{10} \cdot 16\text{H}_2\text{O}$	3.58x	7.20 ₈	3.48 ₈	29- 876
* Magnetite syn	Fe_3O_4	2.53x	1.49 ₄	2.97 ₃	19- 629
* Magnetoplumbite syn	$\text{PbFe}_{12}\text{O}_{19}$	2.76x	2.62 ₉	2.93 ₄	17- 660
o Magniotriplite	$(\text{Mg,Fe,Mn})_3\text{PO}_4\text{F}$	3.33x	3.14x	2.97x	8- 140
* Magnocolumbite syn	MgNb_2O_6	3.64x	2.95x	7.09 ₆	25- 526
i Magnussonite	$(\text{Mn,Cu,Mg})_3(\text{OH,Cl})(\text{AsO}_3)_3$	2.85x	3.12 ₃	2.47 ₃	10- 407
i Majakite	PdNiAs	2.65x	1.99x	2.19 ₇	29- 965
i Majorite	$\text{Mg}_3\text{Fe}_2(\text{SiO}_4)_3$	2.58x	2.88 ₇	1.54 ₆	25- 843
i Makatite	$\text{NaSi}_2\text{O}_3(\text{OH})_3 \cdot \text{H}_2\text{O}$	5.09x	9.04 ₆	2.99 ₆	23- 703
i Makinenite	$\gamma\text{-NiSe}$	2.88x	2.63x	2.33x	18- 887
* Malachite syn	$\text{Cu}_2\text{CO}_3(\text{OH})_2$	2.86x	3.69 ₉	5.06 ₈	10- 399
o Malanite	$(\text{Cu,Ir,Pt})\text{S}_2$	2.50x	1.76x	5.86 ₈	29- 552
i Malayaite syn	CaSnSiO_5	3.28x	5.05 ₃	2.64 ₅	25- 176
i Maldonite	Au_2Bi	2.41x	1.54 ₆	2.30 ₅	12- 734
i Malladrite syn	Na_2SiF_6	2.29x	1.80 ₈	3.34 ₇	8- 36
i Manasseite	$\text{Mg}_6\text{Al}_2\text{CO}_3(\text{OH})_{16} \cdot 4\text{H}_2\text{O}$	7.67x	1.84 ₆	2.60 ₅	14- 525
* Mandarinoite	$\text{Fe}_2(\text{SeO}_3)_3 \cdot 4\text{H}_2\text{O}$	7.10x	2.98 ₇	3.55 ₅	29- 719
* Manganaxinite	$\text{Ca}_2(\text{Mn,Fe})\text{Al}_2\text{BSi}_4\text{O}_{15}(\text{OH})$	3.16x	3.47 ₇	2.81 ₅	27- 84
i Manganberzeltonite	$\text{Ca}_2(\text{Mn,Fe})\text{FeSi}_3\text{O}_{14}\text{OH}$	3.10x	3.00x	2.94x	26- 313
i Manganberzeliite syn	$\text{NaCa}_2\text{Mn}_2\text{As}_3\text{O}_{12}$	2.80x	2.56 ₉	1.67 ₈	20-1089
i Manganese-hoernesite	$(\text{Mn,Mg})_3(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	7.01x	8.19 ₉	3.02 ₇	8- 141
i Manganese-shadlunite	$(\text{Cu,Fe})_8(\text{Mn,Pb})\text{S}_8$	3.23x	1.89 ₉	3.08 ₃	25-1425
i Manganhumite	$(\text{Mn,Mg})_7(\text{SiO}_4)_3(\text{OH})_2$	1.78x	2.50 ₇	3.37 ₆	29- 866
i Manganite syn	MnOOH	3.41x	1.68 ₉	2.41 ₈	18- 805
i Mangan-neptunite	$\text{Na}_2\text{KLi}(\text{Mn,Fe})_2\text{Ti}_2\text{Si}_8\text{O}_{24}$	2.49x	1.51x	1.48 ₉	29- 823
* Manganocolumbite syn	MnNb_2O_6	3.68x	2.98x	7.21 ₅	25- 543
* Manganolangbeinite syn	$\text{K}_2\text{Mn}_2(\text{SO}_4)_3$	3.20x	2.70 ₅	3.05 ₂	20- 909
* Manganosite syn	MnO	2.22x	2.57 ₆	1.57 ₆	7- 230
i Manganostibite	$\text{Mn}_7\text{SbAsO}_{12}$	2.65x	4.97 ₆	4.38 ₆	23-1236
i Manganotantalite	MnTa_2O_6	2.99x	3.69 ₉	2.41 ₇	7- 58
i Manganpyrosmalite	$(\text{Mn,Fe})_8(\text{Si}_6\text{O}_{15})(\text{OH,Cl})_{10}$	7.16x	2.68 ₉	3.58 ₈	12- 249
i Manjiroite	$(\text{Na,K})\text{Mn}_8\text{O}_{16} \cdot n\text{H}_2\text{O}$	2.41x	7.02x	3.14 ₉	21-1153
i Mansfieldite	$\text{AlAsO}_4 \cdot 2\text{H}_2\text{O}$	5.53x	4.41x	3.12x	23- 123
c Marcasite	FeS_2	2.69x	3.43 ₇	1.75 ₅	24- 74
i Marcasite	FeS_2	2.71x	1.76 ₆	3.44 ₄	3- 799
* Margarite, 2M ₁	$\text{CaAl}_2(\text{Si}_2\text{Al}_2)\text{O}_{10}(\text{OH})_2$	3.18x	1.91 ₄	2.52 ₃	18- 276
* Margarosanite	$\text{Pb}(\text{Ca,Mn})_2(\text{SiO}_3)_3$	2.98x	3.03 ₅	2.67 ₄	16- 356
c Margarosanite	$\text{Ca}_2\text{PbSi}_3\text{O}_9$	2.99x	3.03 ₉	5.10 ₈	27- 79

MINERAL NAMES

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i	Marialite	$\text{Na}_4\text{Al}_3\text{Si}_6\text{O}_{24}\text{Cl}$	3.44x	3.03x	3.78 ₉	2- 412
*	Marialite, calcian	$(\text{NaCa})_2(\text{SiAl})_6\text{O}_{12}\text{Cl}_5$	3.47x	3.06 ₇	3.82 ₅	22-1272
i	Maricite	NaFePO_4	2.57x	2.73 ₉	2.71 ₈	29-1216
i	Marokite	CaMn_2O_4	2.71x	2.22x	2.29 ₈	16- 709
i	Marrite	AgPbAsS_3	3.45x	2.75x	3.00 ₇	21-1338
*	Marshite syn	CuI	3.49x	2.14 ₆	1.82 ₃	6- 246
i	Marthozite	$\text{Cu}(\text{UO}_2)_4(\text{SeO}_3)_4(\text{OH})_2 \cdot 10\text{H}_2\text{O}$	8.23x	3.09x	3.22 ₉	25- 320
*	Mascagnite syn	$(\text{NH}_4)_2\text{SO}_4$	4.33x	4.39 ₇	3.06 ₆	10- 343
*	Massicot syn	PbO	3.07x	2.95 ₃	2.74 ₃	5- 570
	Masutomilite, 1M	$\text{K}(\text{Li}, \text{Mn})_3(\text{Si}, \text{Al})_4\text{O}_{16}\text{F}_2$	3.32x	10.1 ₇	3.35 ₇	29- 822
	Masuyite	$\text{Pb-UO}_3\text{-H}_2\text{O}$	7.08x	3.52 ₇	3.12 ₅	13- 408
i	Matildite	AgBiS_2	2.83x	3.30 ₈	1.97 ₆	24-1031
i	Matildite syn	AgBiS_2	2.83x	3.30 ₈	2.03 ₆	4- 695
*	Matlockite syn	PbClF	3.57x	2.91 ₅	3.62 ₄	26- 311
i	Mattagamite syn	CoTe_2	2.82x	2.71x	2.07x	11- 553
*	Matteuccite syn	$\text{NaHSO}_4 \cdot \text{H}_2\text{O}$	3.56x	3.46 ₇	3.42 ₆	22-1379
i	Maucherite	$\text{Ni}_{11}\text{As}_8$	2.01x	1.71x	2.69 ₉	8- 85
i	Maucherite syn	$\text{Ni}_{11}\text{As}_8$	2.03x	2.71 ₉	1.90 ₉	18- 875
i	Mawsonite	$\text{Cu}_6\text{Fe}_2\text{SnS}_8$	3.10x	1.90 ₈	1.62 ₄	29- 557
*	Mayenite syn	$\text{Ca}_{12}\text{Al}_{14}\text{O}_{33}$	2.68x	4.89x	2.45 ₅	9- 413
*	Mcallisterite	$\text{Mg}_2\text{B}_{12}\text{O}_{20} \cdot 15\text{H}_2\text{O}$	8.72x	5.77 ₅	4.06 ₅	18- 767
i	Mconnelite syn	CuCrO_2	2.47x	1.65 ₅	2.85 ₄	26-1113
i	Mcgovernite	$\text{Mn}_9\text{Zn}_7\text{Mg}_4\text{As}_2\text{Si}_2\text{O}_{17}(\text{OH})_{14}$	1.54x	2.66 ₆	2.35 ₆	25- 531
i	Mcgovernite	$\text{Mn}_9\text{Mg}_4\text{Zn}_2\text{As}_2\text{Si}_2\text{O}_{17}(\text{OH})_{14}$	2.26x	5.63 ₉	2.42 ₈	27-1279
i	Mckelveyite	$(\text{NaCa})(\text{BaYU})_2(\text{CO}_3)_3 \cdot 1-2\text{H}_2\text{O}$	2.94x	4.47 ₉	2.65 ₄	18- 901
i	Mckinstryite	$(\text{Ag}, \text{Cu})_2\text{S}$	2.61x	2.07 ₇	3.51 ₆	19- 406
i	Meionite	$\text{Ca}_4\text{Al}_6(\text{SiO}_4)_6(\text{SO}_4, \text{CO}_3)$	3.47x	3.08x	2.07x	2- 405
i	Melanophlogite	$\text{C}_2\text{H}_{17}\text{O}_5 \cdot \text{Si}_4\text{O}_{12}$	5.99x	3.58 ₉	5.47 ₇	25- 7
i	Melanostibite	$\text{Mn}(\text{Sb}, \text{Fe})\text{O}_3$	2.81x	2.61 ₈	1.77 ₆	20- 699
i	Melanotekite, manganooan	$\text{Pb}_2(\text{Fe}, \text{Mn})_2\text{Si}_2\text{O}_9$	2.91x	2.73x	5.52 ₈	15- 633
*	Melanotekite syn	$\text{Pb}_2\text{Fe}_2\text{Si}_2\text{O}_9$	2.92x	2.73 ₈	2.86 ₆	20- 585
*	Melanterite syn	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	4.90x	3.78 ₆	4.87 ₅	22- 633
i	Meliphanite	$\text{Ca}_2\text{BeSi}_2\text{O}_7$	2.77x	1.71 ₇	1.49 ₇	15- 199
i	Meliphanite	$(\text{Ca}, \text{Na})_2\text{Be}(\text{Si}, \text{Al})_2(\text{O}, \text{F})_7$	2.75x	2.96 ₅	1.70 ₅	17- 204
c	Meliphanite	$(\text{Ca}, \text{Na})_2\text{Be}(\text{Si}, \text{Al})_2(\text{O}, \text{F})_7$	2.76x	2.97 ₄	3.60 ₄	23- 349
	Melkovite	$\text{CaFeH}_6(\text{MoO}_4)_4(\text{PO}_4) \cdot 6\text{H}_2\text{O}$	2.92x	3.54 ₉	1.79 ₈	23- 384
*	Mellite	$\text{C}_6(\text{COO})_6\text{Al}_2 \cdot 18\text{H}_2\text{O}$	7.99x	4.23 ₇	5.80 ₆	28-2001
i	Melonite	NiTe_2	2.82x	1.55 ₆	2.06 ₅	8- 4
i	Melonite, palladian	$(\text{Ni}, \text{Pd})(\text{Te}, \text{Bi})_2$	2.85x	2.08 ₅	1.95 ₅	24- 797
i	Melonjosephite	$\text{Ca}(\text{Fe}, \text{Mg})\text{Fe}(\text{PO}_4)_2\text{OH}$	3.05x	5.42 ₉	2.71 ₉	25-1454
	Mendipite	$\text{Pb}_2\text{O}_2\text{Cl}_2$	2.78x	2.64 ₉	3.04 ₈	23- 332
*	Mendozite syn	$\text{NaAl}(\text{SO}_4)_2 \cdot 11\text{H}_2\text{O}$	3.50x	4.76 ₉	4.58 ₇	22- 475
i	Meneghinite	$\text{CuPb}_{13}\text{Sb}_7\text{S}_{24}$	3.27x	2.92 ₉	3.74 ₈	29- 559
*	Mercallite syn	KHSO_4	3.84x	3.52 ₉	3.41 ₉	11- 649
i	Merenskyite syn	PdTe_2	2.87x	2.06 ₉	2.01 ₉	29- 970
i	Merlinoite	$\text{K}_3\text{Ca}_2(\text{Al}_9\text{Si}_{23}\text{O}_{64}) \cdot 24\text{H}_2\text{O}$	3.18x	7.12 ₉	7.08 ₉	29- 989
i	Merrihueite	$(\text{K}, \text{Na})_2(\text{Fe}, \text{Mg})_5\text{Si}_{12}\text{O}_{30}$	3.73x	2.77x	3.23 ₉	21-1270
i	Mertieite	$\text{Pd}_3(\text{Sb}, \text{As})_2$	2.28x	2.17 ₉	2.23 ₇	25- 598
i	Merwinite syn	$\text{Ca}_3\text{Mg}(\text{SiO}_4)_2$	2.67x	2.75 ₄	2.21 ₄	25- 161
i	Mesolite	$\text{Na}_2\text{Ca}_2\text{Al}_6\text{Si}_6\text{O}_{30} \cdot 9\text{H}_2\text{O}$	2.89x	2.87 ₇	5.90 ₇	24-1064
	Messelite	$(\text{Ca}, \text{Fe}, \text{Mn})_3(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$	6.34x	3.17x	3.02 ₈	10- 389
	Meta-aluminite	$\text{Al}_2\text{SO}_4(\text{OH})_4 \cdot 5\text{H}_2\text{O}$	4.48x	8.35 ₈	4.36 ₇	20- 60
i	Meta-ankoleite	$(\text{K}, \text{Ba})_2(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 6\text{H}_2\text{O}$	8.92x	3.73 ₇	3.25 ₆	19-1008
	Meta-ankoleite syn	$\text{KUO}_2\text{PO}_4 \cdot 3\text{H}_2\text{O}$	9.09x	3.78x	3.27 ₉	29-1061
	Meta-autunite, 8A	$\text{Ca}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 0-2\text{H}_2\text{O}$	8.17x	4.08 ₆	4.14 ₃	14- 73
i	Meta-autunite, 9A	$\text{Ca}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 6\text{H}_2\text{O}$	8.47x	3.61 ₉	2.11 ₇	12- 423
*	Metaborite syn	HBO_2	4.44x	1.94x	3.63 ₅	15- 868
o	Metacalcicouranoite	$(\text{Ca}, \text{Na}, \text{Ba})\text{U}_2\text{O}_7 \cdot 1-2\text{H}_2\text{O}$	3.09 ₉	1.68 ₆	1.28 ₆	25-1451
i	Metacinnabar, selenian	$\text{Hg}(\text{S}, \text{Se})$	3.41x	2.09 ₈	1.78 ₇	22- 729
*	Metacinnabar syn	HgS	3.38x	2.07 ₆	1.76 ₅	6- 261
i	Metadelrioite	$\text{CaSrV}_2\text{O}_6(\text{OH})_2$	4.94x	3.46x	4.73 ₈	22- 600
i	Metadomeykite	$\beta\text{-Cu}_3\text{As}$	2.08x	2.02x	1.45 ₅	14- 454
i	Metadomeykite syn	$\beta\text{-Cu}_3\text{As}$	2.05x	2.00x	2.34 ₈	2-1251
i	Metaheinrichite	$\text{Ba}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	8.90x	3.75 ₈	5.54 ₆	24- 128
	Metakahlerite	$\text{Fe}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	3.59x	8.55 ₉	4.29 ₆	12- 576
i	Metakahlerite syn	$\text{Fe}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	8.86x	3.59x	1.61 ₇	17- 151
	Metakirchheimerite	$\text{Co}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	8.78x	3.57x	5.08 ₆	12- 586
i	Metalodevite	$\text{Zn}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 10\text{H}_2\text{O}$	3.59x	8.66 ₇	2.98 ₈	25-1239
i	Metanovacekite	$\text{Mg}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	8.52x	3.57 ₉	2.14 ₆	17- 152
c	Metarossite	$\text{Ca}(\text{VO}_3)_2 \cdot 2\text{H}_2\text{O}$	5.93x	6.77 ₆	5.03 ₆	29- 392
i	Metaschoderite	$\text{Al}_2\text{PO}_4\text{VO}_4 \cdot 6\text{H}_2\text{O}$	7.50x	14.9 ₆	11.1 ₄	14- 217
i	Metasideronatrite	$\text{Na}_4\text{Fe}_2(\text{SO}_4)_4(\text{OH})_2 \cdot 3\text{H}_2\text{O}$	3.68x	8.05 ₉	6.68 ₇	29-1219
*	Metatorbernite	$\text{Cu}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$	8.71x	3.68x	3.48 ₈	16- 404
	Metatyuyamunite	$\text{Ca}(\text{UO}_2)_2(\text{VO}_4)_2 \cdot 3-5\text{H}_2\text{O}$	8.51x	4.22 ₈	3.26 ₆	8- 287
i	Meta-uranocircite, 17A	$\text{Ba}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 6\text{H}_2\text{O}$	8.55x	3.61 ₉	5.39 ₇	17- 759
i	Meta-uranocircite, 18A	$\text{Ba}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$	8.93x	3.73 ₈	5.48 ₇	17- 758
*	Meta-uranocircite, 17A syn	$\text{Ba}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 6\text{H}_2\text{O}$	3.60x	8.34 ₉	4.23 ₄	25-1468
i	Meta-uranospinite, 17A	$\text{Ca}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 6\text{H}_2\text{O}$	8.65x	3.57x	3.31 ₉	18- 309
	Meta-uranospinite, 9A syn	$\text{Ca}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	8.85x	3.59 ₉	3.34 ₈	8- 319
i	Metavanuralite	$\text{Al}(\text{UO}_2)_2(\text{VO}_4)_2(\text{OH}) \cdot 8\text{H}_2\text{O}$	9.92x	4.17 ₉	3.16 ₉	23- 770

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File No.

	Metavariscite	$\text{AlPO}_4 \cdot 2\text{H}_2\text{O}$	2.71x	4.25 ₉	4.58 ₈	15- 311
	Metavauxite	$\text{FeAl}_2(\text{PO}_4)_2(\text{OH})_2 \cdot 8\text{H}_2\text{O}$	2.75x	4.67 ₉	4.32 ₉	2- 856
i	Metavivianite	$\text{Fe}_3(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$	6.71x	8.59 ₄	4.86 ₄	26-1137
i	Metavoltine	$\text{Na}_6\text{K}_2\text{Fe}_7(\text{SO}_4)_{12}\text{O}_2 \cdot 18\text{H}_2\text{O}$	9.08x	18.2 ₈	2.02 ₄	29-1043
*	Metazellerite syn	$\text{CaUO}_2(\text{CO}_3)_2 \cdot 3\text{H}_2\text{O}$	9.10x	3.79 ₃	4.70 ₄	19- 258
i	Metazeunerite	$\text{Cu}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	8.86x	3.73x	5.57 ₈	17- 146
i	Meyerhofferite	$\text{Ca}_2\text{B}_6\text{O}_{10}(\text{OH})_4 \cdot 5\text{H}_2\text{O}$	8.31x	6.47x	4.97 ₃	12- 411
*	Miargyrite syn	AgSbS_2	2.89x	3.44 ₈	2.75 ₇	19-1137
i	Michenerite syn	BiPdTe	2.97x	2.00 ₆	2.72 ₈	25- 92
c	Microcline, inter	KAlSi_3O_8	3.29x	3.24x	4.23 ₆	22- 675
*	Microcline, inter	KAlSi_3O_8	3.24x	3.29 ₃	4.22 ₅	19- 932
*	Microcline, max	KAlSi_3O_8	4.22x	3.26 ₈	3.25 ₈	19- 926
c	Microcline, max	KAlSi_3O_8	3.25x	4.21 ₃	3.29 ₅	22- 687
i	Microcline	$(\text{Ca}, \text{Na}, \text{Fe})_2\text{Ta}_2(\text{O}, \text{OH}, \text{F})_7$	1.57x	1.84 ₈	3.00 ₇	3-1139
i	Microsommitite	$(\text{NaCaK})_8(\text{SiAl})_{12}\text{O}_{24}\text{Cl}_2 \cdot 3$	4.81x	3.69x	3.29x	20- 743
i	Miersite	$((\text{Ag}, \text{Cu})\text{I})$	3.23x	2.28 ₈	1.95 ₈	2- 499
*	Milarite	$\text{K}_2\text{Ca}_4\text{Be}_4\text{Al}_2\text{Si}_{24}\text{O}_{60} \cdot \text{H}_2\text{O}$	3.31x	2.88 ₈	4.16 ₇	12- 450
*	Millerite	NiS	2.78x	1.86x	2.51 ₇	12- 41
i	Millisite	$(\text{Na}, \text{K})\text{CaAl}_6(\text{PO}_4)_4(\text{OH})_9 \cdot 3\text{H}_2\text{O}$	4.84x	2.98 ₈	2.81 ₈	13- 371
i	Millisite	$(\text{Na}, \text{K})\text{CaAl}_6(\text{PO}_4)_4(\text{OH})_9 \cdot 3\text{H}_2\text{O}$	4.84x	4.80x	4.73x	13- 370
*	Millasevichite syn	$\text{Al}_2(\text{SO}_4)_3$	3.49x	2.91 ₄	5.82 ₃	22- 21
i	Mimetite, phosphatian	$\text{Pb}_3\text{Cl}(\text{As}, \text{P})\text{O}_4)_3$	3.04x	2.99x	2.93 ₈	13- 124
*	Mimetite syn	$\text{Pb}_3(\text{AsO}_4)_3\text{Cl}$	3.06x	3.01 ₉	2.96 ₇	19- 683
i	Minasragrite	$\text{VOSO}_4 \cdot 5\text{H}_2\text{O}$	5.14x	3.91 ₇	5.43 ₆	26-1393
i	Minguzzite syn	$\text{K}_3\text{Fe}(\text{C}_2\text{O}_4)_3 \cdot 3\text{H}_2\text{O}$	6.90x	3.61 ₇	2.18 ₇	14- 720
*	Minium syn	Pb_3O_4	3.38x	2.90 ₃	2.79 ₅	8- 19
o	Minnesotaite	$(\text{Fe}, \text{Mg})_2\text{Si}_4\text{O}_{10}(\text{OH})_2$	9.60x	2.52 ₇	3.17 ₅	17- 506
i	Minyulite	$\text{KAl}_2(\text{PO}_4)_2(\text{OH}, \text{F}) \cdot 4\text{H}_2\text{O}$	5.53x	3.35 ₆	3.40 ₅	27- 371
*	Mirabilite	$\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$	5.49x	3.21 ₈	3.26 ₆	11- 647
i	Miserite	$\text{KCa}_5\text{Si}_2\text{O}_7\text{O}_{15}\text{OHF}$	3.14x	1.64 ₈	2.38 ₇	22- 806
i	Mitridatite	$\text{Ca}_3\text{Fe}_4(\text{PO}_4)_4(\text{OH})_6 \cdot 3\text{H}_2\text{O}$	8.64x	2.72 ₇	5.55 ₆	26-1057
*	Mitscherlichite syn	$\text{K}_2\text{CuCl}_4 \cdot 2\text{H}_2\text{O}$	2.64x	2.71x	5.42 ₇	23- 478
i	Mixite	$\text{Cu}_3(\text{AsO}_4)_2 \cdot 6\text{H}_2\text{O}$	12.1x	2.46 ₈	4.48 ₈	13- 413
i	Mixite	$\text{Cu}_{12}\text{Bi}(\text{AsO}_4)_4(\text{OH})_9 \cdot 9\text{H}_2\text{O}$	12.0x	2.46 ₈	3.57 ₆	13- 414
*	Mizzonite	$(\text{Na}, \text{K})\text{Ca}(\text{Si}, \text{Al})_6\text{O}_{12}\text{Cl}$	3.46x	3.07 ₇	3.82 ₆	29-1036
i	Moctezumite	$\text{Pb}(\text{UO}_2)(\text{TeO}_3)_2$	3.16x	3.49 ₉	3.00 ₈	18- 707
i	Modderite syn	CoAs	1.97x	2.59 ₉	2.55 ₆	9- 94
*	Mohrite syn	$(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$	4.20x	4.13 ₈	3.79 ₆	17- 481
*	Moissanite, 6H syn	$\alpha\text{-SiC}$	2.51x	2.62 ₄	1.31 ₄	29-1131
o	Moissanite, 2H syn	$\alpha\text{-SiC}$	2.52x	2.36 ₈	2.67 ₆	29-1130
*	Moluranite, heated	$\text{U}_4\text{Mo}_7\text{O}_{32} \cdot 20\text{H}_2\text{O}$	4.17x	1.31 ₆	1.30 ₆	29-1371
*	Molybdenite, 2H, syn	MoS_2	6.15x	2.28 ₃	1.83 ₃	6- 97
c	Molybdenite, 3R	MoS_2	6.15x	2.36 ₃	2.20 ₃	24- 515
i	Molybdenite, 3R	MoS_2	6.09x	2.71 ₇	1.58 ₇	17- 744
*	Molybdite syn	MoO_3	3.26x	3.81 ₈	3.46 ₆	5- 508
i	Molybdomenite	PbSeO_3	2.76x	3.32 ₉	3.43 ₇	15- 471
i	Molybdomenite syn	PbSeO_3	2.74x	3.14 ₉	3.30 ₆	15- 462
i	Molybdophyllite	$\text{Pb}_2\text{Mg}_2\text{Si}_2\text{O}_7(\text{OH})_2$	13.8x	4.60 ₉	2.67 ₇	22- 660
i	Molsite syn	FeCl_3	2.68x	2.08 ₄	5.90 ₃	1-1059
*	Monazite	$(\text{Ce}, \text{La}, \text{Y}, \text{Th})\text{PO}_4$	3.09x	2.87 ₇	3.30 ₅	11- 556
i	Monazite	$(\text{Ce}, \text{La}, \text{Th}, \text{Nd})(\text{PO}_4)$	2.86x	3.08 ₈	1.96 ₃	29- 403
o	Moncheite	$(\text{Pt}, \text{Pd})(\text{Te}, \text{Bi})_2$	2.93x	2.11 ₈	2.02 ₇	15- 392
*	Monetite syn	CaHPO_4	2.96x	3.35 ₈	3.37 ₇	9- 80
i	Monohydrocalcite	$\text{CaCO}_3 \cdot \text{H}_2\text{O}$	4.33x	3.08 ₈	1.93 ₆	29- 306
i	Montbrayite syn	$(\text{Au}, \text{Sb})_2\text{Te}_3$	2.09x	2.98 ₈	2.92 ₆	25- 364
i	Montebrasite	$(\text{Li}, \text{Na})\text{AlPO}_4(\text{OH}, \text{F})$	2.97x	3.16 ₉	4.67 ₇	12- 448
*	Monteponite syn	CdO	2.71x	2.35 ₉	1.66 ₄	5- 640
i	Montgomeryite	$\text{Ca}_4\text{Al}_3(\text{PO}_4)_6(\text{OH})_3 \cdot 11\text{H}_2\text{O}$	5.09x	12.0 ₉	2.88 ₃	13- 463
c	Montgomeryite	$\text{Ca}_4\text{MgAl}_4(\text{PO}_4)_6(\text{OH})_4 \cdot 12\text{H}_2\text{O}$	5.12x	12.1 ₆	2.62 ₃	28- 225
i	Monticellite syn	CaMgSiO_4	3.62x	2.66x	2.58x	19- 240
i	Montmorillonite, 18A	$\text{Na}_3(\text{AlMg})_2\text{Si}_4\text{O}_{10}\text{OH}_2 \cdot x\text{H}_2\text{O}$	17.6x	4.49 ₆	1.50 ₆	12- 219
i	Montmorillonite, 15A	$\text{Ca}_2(\text{AlMg})_2\text{Si}_4\text{O}_{10}\text{OH}_2 \cdot x\text{H}_2\text{O}$	15.0x	4.50 ₈	5.01 ₆	13- 135
i	Montmorillonite, 14A	$\text{Na}_3(\text{AlMg})_2\text{Si}_4\text{O}_{10}\text{OH}_2 \cdot x\text{H}_2\text{O}$	13.6x	4.47 ₂	3.34 ₁	13- 259
i	Montmorillonite, 21A	$\text{Na}_3(\text{AlMg})_2\text{Si}_4\text{O}_{10}\text{OH}_2 \cdot x\text{H}_2\text{O}$	21.5x	4.45 ₆	3.15 ₄	29-1499
i	Montmorillonite, 15A	$\text{Na}_3(\text{AlMg})_2\text{Si}_4\text{O}_{10}\text{OH}_2 \cdot x\text{H}_2\text{O}$	13.6x	3.13 ₈	4.46 ₇	29-1498
i	Montmorillonite-chlorite, regular	$\text{Na}(\text{AlMg})_7\text{Si}_8\text{O}_{20}(\text{OH})_{10} \cdot \text{H}_2\text{O}$	4.53x	15.0 ₉	4.97 ₈	12- 231
i	Montmorillonite-illite - Illite-Montmorillonite	$\text{K}_6\text{Al}_2\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot x\text{H}_2\text{O}$	4.45x	2.55 ₇	12.2 ₄	29-1495
i	Montroseite	$\text{VO}(\text{OH})$	4.31x	2.64x	3.38 ₈	11- 152
*	Montroydite syn	HgO	2.97x	2.83 ₈	2.41 ₇	9- 381
i	Mooihoekite syn	$\text{Cu}_9\text{Fe}_9\text{S}_{16}$	3.07x	1.89 ₈	1.60 ₆	25- 286
*	Mooreite	$(\text{Mg}, \text{Mn}, \text{Zn})_8(\text{SO}_4)(\text{OH})_{14} \cdot 4\text{H}_2\text{O}$	10.4x	5.14x	8.29 ₉	5- 94
*	Moorhouseite	$\text{CoSO}_4 \cdot 6\text{H}_2\text{O}$	4.38x	4.02 ₈	5.45 ₃	16- 304
i	Moraesite	$\text{Be}_2\text{PO}_4(\text{OH}) \cdot 4\text{H}_2\text{O}$	7.00x	3.28 ₉	4.24 ₆	6- 58
*	Mordenite	$(\text{Ca}, \text{Na}_2, \text{K})_2\text{Al}_2\text{Si}_{10}\text{O}_{24} \cdot 7\text{H}_2\text{O}$	3.48x	3.22x	9.10 ₉	6- 239
i	Mordenite	$(\text{Na}_2\text{Ca})\text{Al}_2\text{Si}_{10}\text{O}_{24} \cdot 7\text{H}_2\text{O}$	9.06x	4.00 ₇	3.48 ₅	29-1257
i	Morenosite syn	$\text{NiSO}_4 \cdot 7\text{H}_2\text{O}$	4.20x	5.30 ₆	2.85 ₃	1- 403
i	Morinite	$\text{Na}_2\text{Ca}_4\text{Al}_4\text{P}_4\text{O}_{11}\text{H}_{10}\text{F}_6$	2.94x	3.47 ₈	1.78 ₈	11- 666
i	Mosandrite	$(\text{Ca}, \text{Na})_{12}\text{Ti}_2\text{Si}_7\text{O}_{31}\text{H}_4\text{F}_4$	3.07x	2.70 ₇	2.95 ₄	12- 582
i	Moschellandsbergite	Ag_2Hg_3	2.36x	1.37 ₇	1.24 ₆	11- 67
i	Mosesite	$\text{Hg}_2\text{N}(\text{Cl}, \text{SO}_4\text{MoO}_4, \text{CO}_3) \cdot \text{H}_2\text{O}$	2.74x	2.86 ₈	1.68 ₇	6- 490

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					File No.
i	Mottramite	(Cu,Zn)PbVO ₄ (OH)	3.24x	5.07 _a	2.87 _a 12- 538
i	Mounanaite	PbFe ₂ (VO ₄) ₂ (OH) ₂	4.66x	4.56 _a	2.77 _a 22- 657
i	Mountainite	(Ca,Na ₂ ,K ₂) ₂ Si ₄ O ₁₀ ·3H ₂ O	2.94x	6.60 _a	13.1 _a 25- 676
i	Mourite	UMo ₂ O ₁₈ ·5H ₂ O	5.97x	2.89 _a	3.30 _a 24-1359
i	Mpororoite	(Al,Fe) ₂ W ₂ O ₉ ·6H ₂ O	8.21x	3.08 _a	4.09 _a 25-1496
i	Mroseite	CaCO ₃ TeO ₂	3.14x	5.14 _a	4.20 _a 29- 309
*	Muirite	Ba ₁₀ Ca ₂ MnTiSi ₁₀ O ₃₀ (OH) ₁₀	2.91x	4.42 _a	3.73 _a 18- 161
i	Mukhinite	Ca ₂ Al ₂ VSi ₂ O ₁₂ (OH)	2.89x	2.68 _a	2.60 _a 22-1066
*	Mullite syn	Al ₂ Si ₂ O ₇	3.39x	3.43x	2.21 _a 15- 776
i	Murataite	(Na,La) ₄ Zn ₃ (Ti,Nb) ₆ O ₁₈ F ₄	2.86x	1.75 _a	1.49 _a 26-1383
*	Murdochite	Cu ₆ PbO ₈	5.30x	2.66x	1.63x 7- 28
*	Murmanite	Na ₂ (Ti,Nb) ₂ Si ₂ O ₆ ·xH ₂ O	11.6x	2.86 _a	5.70 _a 14- 369
i	Muscovite, barium	(Ba,K)Al ₂ (Si ₃ AlO ₁₀)(OH) ₂	2.56x	9.98 _a	4.48 _a 10- 490
i	Muscovite, calcian, 2M ₂	(K,Ca)Al ₂ (Si ₃ Al) ₄ O ₁₀ (OH) ₂	3.20x	3.33 _a	3.11 _a 25- 649
*	Muscovite, 2M ₁	KAl ₂ (Si ₃ Al) ₄ O ₁₀ (OH,F) ₂	3.32x	9.95x	2.57 _a 6- 263
*	Muscovite, 1M syn	KAl ₂ Si ₃ AlO ₁₀ (OH) ₂	10.1x	3.36x	4.49 _a 7- 25
*	Muscovite, 3T	KAl ₂ (Si ₃ Al) ₄ O ₁₀ (OH) ₂	9.97x	3.33x	4.99 _a 7- 42
i	Muscovite, vanadian, 2M ₁	K(Al,V) ₂ (Si ₃ Al) ₄ O ₁₀ (OH) ₂	2.57x	9.97 _a	3.34 _a 19- 814
o	Muskoxite	Mg ₇ Fe ₄ O ₁₃ ·10H ₂ O	2.31x	4.61 _a	1.75 _a 22- 709
*	Nacrite, 2M ₂	Al ₂ Si ₂ O ₇ (OH) ₄	7.18x	4.36 _a	3.59 _a 16- 606
*	Nadorite	PbSbO ₂ Cl	2.80x	3.71 _a	1.95 _a 17- 469
i	Nagyagite	Pb ₃ Au(Te,Sb) ₄ S ₅ - ₈	3.02x	2.81 _a	1.51 _a 8- 3
*	Nahcolite syn	NaHCO ₃	2.94x	2.60x	2.96 _a 15- 700
i	Nakauriite	Cu ₈ (SO ₄) ₄ (CO ₃) ₄ (OH) ₆ ·48H ₂ O	7.31x	3.65 _a	2.37 _a 29- 538
i	Nambulite	LiNaMn ₆ Si ₁₀ O ₂₈ (OH) ₂	2.96x	2.97 _a	2.92 _a 29- 833
*	Nantokite syn	CuCl	3.13x	1.92 _a	1.63 _a 6- 344
i	Narsarsukite	Na ₂ TiSi ₂ O ₁₁	5.37x	3.39 _a	3.26 _a 11- 478
i	Nasinitite syn	Na ₄ B ₁₀ O ₁₇ ·5H ₂ O	5.27x	5.99x	2.90 _a 29-1180
i	Nasledovite	PbMn ₃ Al ₄ (CO ₃) ₄ (SO ₄)O ₅ ·5H ₂ O	3.26x	2.03 _a	2.02 _a 25- 438
i	Nasonite	Ca ₄ Pb ₂ Cl ₂ Si ₃ O ₂₁	3.27x	1.81x	3.16 _a 14- 328
i	Natisite	Na ₂ TiOSiO ₄	2.71x	5.05 _a	1.69 _a 29-1279
i	Natroalunite	(Na,K)Al ₃ (SO ₄) ₂ (OH) ₆	2.96x	4.90 _a	2.97 _a 14- 130
*	Natrochalcite	NaCu ₂ (SO ₄) ₂ OH·H ₂ O	2.80x	6.57 _a	3.44 _a 19-1189
o	Natrofairchildite	Na ₂ Ca(CO ₃) ₂	3.18x	2.64 _a	6.71 _a 25- 804
i	Natrojarosite	NaFe ₃ (SO ₄) ₂ (OH) ₆	5.06x	3.06 _a	3.12 _a 11- 302
*	Natrolite	Na ₂ Al ₂ Si ₂ O ₁₀ ·2H ₂ O	2.85x	5.89 _a	2.87 _a 20- 759
*	Natrolite	Na ₂ Al ₂ Si ₂ O ₁₀ ·2H ₂ O	6.49x	5.90 _a	4.15 _a 19-1185
*	Natron syn	Na ₂ CO ₃ ·10H ₂ O	3.04x	3.02 _a	2.89 _a 15- 800
i	Natroniobite	NaNbO ₃	2.97x	3.06 _a	1.60 _a 26-1380
i	Natrophilite	NaMnPO ₄	2.60x	2.58x	2.86 _a 25- 846
i	Natrophosphate	Na ₆ H(PO ₄) ₂ F·17H ₂ O	2.68x	2.43 _a	8.12 _a 25- 831
i	Natrosillite	β-Na ₂ Si ₂ O ₅	6.06x	2.98 _a	3.97 _a 29-1261
i	Natrosillite syn	β-Na ₂ Si ₂ O ₅	2.43x	3.94 _a	2.97 _a 23- 529
i	Naujakasite	Na ₆ (FeMn)Al ₄ Si ₈ O ₂₆ ·H ₂ O	3.99x	3.56 _a	2.26 _a 20-1113
*	Naumannite syn	Ag ₂ Se	2.67x	2.58 _a	2.08 _a 24-1041
i	Navajoite	V ₂ O ₅ ·3H ₂ O	12.1x	10.6 _a	2.90 _a 7- 332
i	Neighborite	NaMgF ₃	1.92x	2.71 _a	3.83 _a 13- 303
c	Nekoite	CaSi ₂ O ₅ ·2H ₂ O	9.25x	3.36x	2.82x 11- 595
i	Nenadkevichite	Na(Nb,Ti)Si ₂ O ₇ ·2H ₂ O	7.10x	7.15x	6.57 _a 25-1189
i	Nenadkevichite	(Na,Ca)(Nb,Ti)(Si ₂ O ₇)·2H ₂ O	3.20x	3.10x	1.43x 8- 105
i	Neotocite	(Mn,Mg,Fe)SiO ₃ ·H ₂ O	4.36x	3.59x	1.54x 14- 172
i	Nepheline, potassian syn	(K,Na)AlSiO ₄	3.07x	4.25 _a	4.02 _a 12- 198
*	Nepheline syn	(Na,K)AlSiO ₄	3.03x	3.87 _a	3.29 _a 9- 338
*	Nepheline syn	NaAlSiO ₄	3.00x	3.83 _a	3.26 _a 19-1176
i	Nepouite, 2Or	(Ni,Mg) ₃ Si ₂ O ₅ (OH) ₄	7.31x	3.63 _a	2.50 _a 25- 524
i	Nepouite, 1T	(Ni,Mg) ₃ Si ₂ O ₅ (OH) ₄	7.26x	1.53x	3.61 _a 15- 580
i	Neptunite	Na ₂ KLi(FeMn) ₂ Ti ₂ (SiO ₃) ₆	3.19x	9.60 _a	3.52 _a 14- 134
*	Nesquehonite syn	MgCO ₃ ·3H ₂ O	6.48x	3.85 _a	2.62 _a 20- 669
i	Newberyite	MgHPO ₄ ·3H ₂ O	5.34x	4.71 _a	3.46 _a 19- 762
c	Newberyite	MgHPO ₄ ·3H ₂ O	5.94x	4.71 _a	3.46 _a 20- 153
i	Neyite	Pb ₇ Bi ₆ (Cu,Ag) ₂ S ₁₇	3.72x	3.51x	2.92x 23-1156
*	Nickel skutterudite	(Ni,Co,Fe)As ₃ -x	2.62x	1.63 _a	1.86 _a 25- 566
*	Nickel syn	Ni	2.03x	1.76 _a	1.25 _a 4- 850
*	Nickelbischofite syn	NiCl ₂ ·6H ₂ O	5.59x	5.50 _a	4.82 _a 25-1044
i	Nickelbloedite	Na ₂ Ni(SO ₄) ₂ ·4H ₂ O	3.22x	4.47 _a	3.19 _a 29-1253
i	Nickelbloedite, magnesian	Na ₂ (Ni,Mg)(SO ₄) ₂ ·4H ₂ O	3.28x	4.53 _a	3.25 _a 29-1238
*	Nickelhexahydrate	NiSO ₄ ·6H ₂ O	4.37x	4.00 _a	2.90 _a 26-1288
i	Nickeline	NiAs	2.66x	1.96 _a	1.81 _a 9- 1
i	Nickel-zippeite	Ni ₂ (UO ₂) ₆ (SO ₄) ₂ (OH) ₁₀ ·16H ₂ O	3.45x	7.10x	3.10 _a 29- 944
i	Nickel-zippeite syn	Ni ₂ (UO ₂) ₆ (SO ₄) ₂ (OH) ₁₀ ·16H ₂ O	7.21x	3.59 _a	3.12 _a 29-1434
i	Nifontovite	CaB ₂ O ₄ ·2.3H ₂ O	7.28x	3.84 _a	2.24 _a 27- 68
i	Nigerite, 6H	(Sn,Zn)(Al,Fe) ₄ O ₈ (OH) ₀₋₂	2.83x	2.42x	1.54x 26-1391
i	Niggliite syn	PtSn	2.16x	1.20 _a	2.05 _a 25- 614
i	Nimite	(Ni,Mg,Al) ₄ (SiAl) ₄ O ₁₀ (OH) ₈	7.10x	3.55 _a	14.2 _a 22- 712
i	Ningyoite	CaU(PO ₄) ₂ ·H ₂ O	3.02x	2.81 _a	2.13 _a 12- 273
i	Niobo-aeschynite	(Ce,Ca,Nd,La)(Nb,Ti) ₂ O ₆	2.98x	3.05 _a	3.13 _a 29- 311
i	Niobophyllite	K ₃ (FeMn) ₆ Nb ₂ (SiAl) ₈ O ₃₁	3.51x	10.5 _a	2.78 _a 17- 742
*	Niocalite	(Ca,Nb) ₄ Si ₂ (O,OH,F) ₉	3.01x	2.89 _a	2.85 _a 11- 622
i	Nisbite syn	NiSb ₂	2.76x	2.69 _a	2.03 _a 25-1083
*	Niter syn	KNO ₃	3.78x	3.73 _a	3.03 _a 5- 377

MINERAL NAMES

File No.

* Nitrammite syn	NH_4NO_3	3.09x	2.72 ₆	3.96 ₇	8- 452
* Nitratite	NaNO_3	3.03x	2.31 ₃	2.81 ₂	7- 271
* Nitrobarite syn	$\text{Ba}(\text{NO}_3)_2$	4.69x	2.45 ₆	2.34 ₂	24- 53
* Nitrocalcite syn	$\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$	5.14x	7.72 ₇	3.58 ₇	26-1406
* Nitromagnesite syn	$\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	3.30x	2.93 ₆	4.43 ₆	14- 101
i Nobleite	$\text{CaB}_6\text{O}_{10} \cdot 4\text{H}_2\text{O}$	6.79x	3.39 ₃	5.18 ₁	13- 243
i Nalanite	$\text{Fe}_4\text{V}_5\text{O}_{18}$	2.63x	2.47 _x	3.41 ₉	19- 640
i Nontronite, 15A	$\text{Na}_3\text{Fe}_2(\text{SiAl})_4\text{O}_{10}\text{OH}_2 \cdot x\text{H}_2\text{O}$	13.3x	4.51 ₆	3.49 ₅	13- 508
i Nontronite, 15A	$\text{Na}_3\text{Fe}_2\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot x\text{H}_2\text{O}$	15.2x	4.48 ₆	2.56 ₃	29-1497
* Norbergite syn	$\text{Mg}_3\text{SiO}_4\text{F}_2$	3.06x	2.23 ₈	2.64 ₈	11- 686
o Nordenskiöldine	$\text{CaSn}(\text{BO}_3)_2$	2.89x	1.80 _x	3.71 ₆	18- 308
i Nordite	$\text{Na}_3\text{LaSrMnSi}_6\text{O}_{17}$	2.95x	2.86 _x	1.76 ₈	27- 672
* Nordstrandite syn	$\text{Al}(\text{OH})_3$	4.79x	2.27 ₃	4.32 ₃	24- 6
i Norsethite	$\text{BaMg}(\text{CO}_3)_2$	3.02x	3.86 ₄	2.66 ₄	12- 530
i Northupite	$\text{Na}_3\text{Mg}(\text{CO}_3)_2\text{Cl}$	2.47x	2.70 ₈	2.11 ₆	19-1213
* Nosean syn	$\text{Na}_8\text{Al}_6\text{Si}_6\text{O}_{24}\text{SO}_4$	3.71x	2.63 ₈	6.45 ₇	17- 538
i Novacekite, 20A	$\text{Mg}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8-10\text{H}_2\text{O}$	10.2x	3.58 ₉	5.06 ₈	8- 286
i Novacekite, 22A syn	$\text{Mg}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 12\text{H}_2\text{O}$	10.9x	3.54 _x	3.22 ₇	17- 147
i Novacekite, 20A syn	$\text{Mg}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 10\text{H}_2\text{O}$	10.0x	3.57 _x	5.02 ₈	17- 148
i Novakite	$(\text{Cu}, \text{Ag})_4\text{As}_3$	1.88x	1.96 ₉	1.18 ₉	13- 568
o Nowackiite	$\text{Cu}_6\text{Zn}_3\text{As}_4\text{S}_{12}$	1.89 ₇	3.13 ₆	1.61 ₆	25- 323
i Nsutite	$\text{Mn}(\text{O}, \text{OH})_2$	1.64x	4.00 _x	2.33 ₇	17- 510
i Nuffieldite	$\text{Pb}_2\text{Cu}(\text{Pb}, \text{Bi})\text{Bi}_2\text{S}_7$	3.66x	3.54 _x	4.00 ₉	19- 675
i Nukundamite syn	$\text{Cu}_{3-38}\text{Fe}_{0-62}\text{S}_4$	3.13x	2.82 ₈	1.89 ₇	16- 159
* Offretite	$(\text{KCaMg})_3\text{Al}_3\text{Si}_{13}\text{O}_{36} \cdot 14\text{H}_2\text{O}$	11.5x	2.88 ₇	4.35 ₆	22- 803
c Offretite	$(\text{KCaMg})_3\text{Al}_3\text{Si}_{13}\text{O}_{36} \cdot 14\text{H}_2\text{O}$	11.5x	3.77 ₂	2.86 ₂	25-1186
i Okenite	$\text{CaSi}_2\text{O}_5 \cdot 2\text{H}_2\text{O}$	21.0x	8.80 ₈	3.56 ₈	9- 469
* Oldhamite syn	CaS	2.85x	2.01 ₇	1.64 ₂	8- 464
i Olivenite	$\text{Cu}_2\text{AsO}_4(\text{OH})$	2.98x	4.82 ₉	5.91 ₇	4- 657
i Olmsteadite	$\text{K}_2\text{Fe}_4(\text{Nb}, \text{Ta})_2(\text{PO}_4)_4\text{O}_4 \cdot 4\text{H}_2\text{O}$	6.01x	2.99 ₇	3.05 ₆	29-1005
i Olsacherite	$\text{Pb}_2(\text{SO}_4)(\text{SeO}_4)$	3.34x	3.23 _x	3.02 _x	22-1135
o Olshanskyite	$\text{Ca}_3\text{B}_4\text{O}_9 \cdot 9\text{H}_2\text{O}$	2.81x	3.05 ₈	7.61 ₅	22- 144
o Omeite	OsAs_2	2.63x	1.92 _x	2.67 ₈	29- 954
i Omphacite	$(\text{Ca}, \text{Na})(\text{Mg}, \text{Fe}, \text{Al})\text{Si}_2\text{O}_6$	2.98x	1.40 ₈	2.13 ₇	17- 522
o Onoratoite	$\text{Sb}_8\text{O}_{11}\text{Cl}_2$	3.19x	4.39 ₇	2.68 ₆	21- 52
i Oosterboschite	$(\text{Pd}, \text{Cu})_7\text{Se}_5$	2.65x	2.60 ₈	1.85 ₈	24- 371
i Orcelite	Ni_3-xAs_2	1.98x	1.92 _x	2.11 ₄	13- 333
i Ordonezite	ZnSb_2O_6	1.72x	3.28 ₉	2.56 ₈	11- 214
i Oregonite	Ni_2FeAs_2	2.31x	2.12 _x	1.99 ₇	13- 368
i Orientite	$\text{Ca}_2\text{Mn}_3(\text{SiO}_4)_3\text{OH}$	2.70x	5.06 ₉	4.39 ₉	18- 941
o Orpheite	$\text{Pb}_{10}\text{Al}_{20}\text{P}_{12}\text{S}_{51} \cdot 119\text{H}_6\text{O}$	5.66x	2.97 _x	3.50 ₇	29- 756
i Orpiment	As_2S_3	4.85x	4.02 ₅	2.47 ₄	19- 84
* Orthoclase	KAlSi_3O_8	3.31x	3.77 ₈	4.22 ₇	19- 931
* Orthoclase, barian	$(\text{K}, \text{Ba})(\text{Si}, \text{Al})_4\text{O}_8$	3.33x	3.46 ₆	3.79 ₅	19- 3
* Orthoclase, barian	$(\text{K}, \text{Ba}, \text{Na})(\text{Si}, \text{Al})_4\text{O}_8$	3.24x	3.31 ₉	3.00 ₇	19- 2
o Orthoericssonite	$\text{BaMn}_2\text{FeSi}_2\text{O}_8(\text{OH})$	3.51x	2.78 ₈	2.69 ₇	18- 789
i Orthoericssonite	$\text{BaMn}_2\text{FeSi}_2\text{O}_8(\text{OH})$	3.38x	5.08 ₆	2.54 ₄	29- 185
* Orthoferrosillite, magnesian	$(\text{Fe}, \text{Mg})\text{SiO}_3$	3.21x	2.89 ₉	2.50 ₆	19- 607
i Orthoferrosillite syn	FeSiO_3	2.91x	4.61 ₉	3.23 ₇	29- 721
i Orthopinakiolite	$(\text{Mg}, \text{Mn})_2\text{Mn}(\text{BO}_3)_2\text{O}_2$	2.59x	5.17 ₉	2.52 ₉	13- 397
i Osarizawaite	$\text{Pb}(\text{Cu}, \text{Al})_3(\text{SO}_4)_2(\text{OH})_6$	3.00x	5.75 ₈	3.52 ₆	15- 178
i Osarsite	$(\text{Os}, \text{Ru})\text{AsS}$	3.79x	1.89 _x	1.87 ₈	25- 595
* Osbornite syn	TiN	2.12x	2.44 ₈	1.50 ₆	6- 642
i Osmiridium	$(\text{Ir}, \text{Os}, \text{Pt})$	2.23x	1.93 ₅	1.37 ₄	17- 213
* Osmium syn	Os	2.08x	2.37 ₄	2.16 ₄	6- 662
i Osumilite	$\text{Na}(\text{MgFe})_2\text{Al}_3\text{Si}_{12}\text{O}_{30}\text{H}_2\text{O}$	3.23x	2.92 ₉	2.77 ₉	25- 658
* Osumilite-(Mg) syn	$\text{KMg}_2\text{Al}_3(\text{Si}, \text{Al}_2\text{O}_{30}) \cdot x\text{H}_2\text{O}$	3.21x	2.77 ₇	5.04 ₆	29-1016
* Otavite syn	CdCO_3	2.95x	3.78 ₈	2.46 ₄	8- 456
* Ottemannite syn	Sn_2S_3	4.13x	5.50 ₈	2.67 ₅	14- 619
i Otwayite	$\text{Ni}_2\text{CO}_3(\text{OH})_2 \cdot \text{H}_2\text{O}$	6.84x	5.67 ₈	2.74 ₆	29- 868
i Overite	$\text{CaMgAl}(\text{PO}_4)_2(\text{OH}) \cdot 4\text{H}_2\text{O}$	2.83x	9.40 ₈	5.29 ₆	16- 157
i Owyheite	$\text{Ag}_2\text{Pb}_3\text{Sb}_6\text{S}_{15}$	3.25x	3.49 ₇	2.84 ₆	5- 510
* Oxammite syn	$(\text{NH}_4)_2\text{C}_2\text{O}_4 \cdot \text{H}_2\text{O}$	2.67x	6.32 _x	3.06 _x	14- 801
i Pabstite syn	$\text{BaSnSi}_3\text{O}_9$	3.77x	2.78 ₉	3.37 ₅	18- 196
i Pachnolite	$\text{NaCaAlF}_6 \cdot \text{H}_2\text{O}$	3.95x	1.97 ₉	2.79 ₇	5- 356
i Painite	$\text{CaZrBAl}_6\text{O}_{18}$	5.76x	2.52 _x	3.70 ₈	10- 405
* Palermoite	$(\text{LiNa})_2(\text{SrCa})\text{Al}_4(\text{PO}_4)_4\text{OH}_4$	3.09x	4.36 ₇	3.13 ₆	18- 950
* Palladium syn	Pd	2.25x	1.95 ₄	1.38 ₃	5- 681
i Palladoarsenide syn	Pd_2As	2.22x	2.15 _x	2.60 ₇	17- 227
i Palladobismutharsenide syn	$\text{Pd}_2(\text{As}, \text{Bi})$	2.23x	2.49 ₉	2.08 ₉	29- 962
i Palladseite	$\text{Pd}_{17}\text{Se}_{15}$	3.18x	2.56 _x	2.04 _x	11- 508
c Palladseite syn	$\text{Pd}_{17}\text{Se}_{15}$	3.20x	1.87 _x	2.04 _x	29-1437
* Palmierite syn	$\text{K}_2\text{Pb}(\text{SO}_4)_2$	3.14x	2.75 ₇	4.33 ₅	29-1015
i Palygorskite	$\text{MgAlSi}_4\text{O}_{10}(\text{OH}) \cdot 4\text{H}_2\text{O}$	10.3x	3.17 ₂	2.23 ₂	29- 855
i Palygorskite	$(\text{MgAl})_3(\text{SiAl})_8\text{O}_{20}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$	10.4x	4.47 ₂	4.26 ₂	21- 550
i Palygorskite	$\text{Mg}_5(\text{SiAl})_8\text{O}_{20}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$	10.4x	6.36 ₂	4.46 ₂	21- 958
i Panethite	$(\text{Na}, \text{Ca})_2(\text{Mg}, \text{Fe})_2(\text{PO}_4)_2$	3.01x	2.71 ₇	5.10 ₆	20- 828
i Paolovite	Pd_3Sn	2.28x	2.16 ₇	1.95 ₅	26-1297
i Papagoite	$\text{CaCuAl}(\text{SiO}_3)_2(\text{OH})_3$	2.87x	4.29 ₉	2.20 ₉	13- 372
i Parabutlerite	$\text{FeSO}_4(\text{OH}) \cdot 2\text{H}_2\text{O}$	4.99x	3.11 _x	5.85 ₆	16- 939

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					File No.
* Paracelsian	BaAl ₂ Si ₂ O ₈	4.00x	3.80 ₇	2.99 ₃	10- 352
c Paracoquimbite	Fe ₂ (SO ₄) ₃ ·9H ₂ O	8.88x	7.62 ₄	3.37 ₃	27- 254
i Paracostibite syn	CoSbS	2.56x	2.03 ₉	2.88 ₇	23-1062
i Paradamite	Zn ₂ As ₂ O ₄ (OH)	6.33x	3.71x	2.99 ₄	12- 223
i Paradocrasite	Sb ₂ (Sb,As) ₂	3.06x	2.09 ₇	2.21 ₆	25- 48
i Paragonite, 2M ₁	NaAl ₂ (AlSi ₃ O ₁₀)(OH) ₂	4.44x	2.54 ₉	9.70 ₈	12- 165
i Paragonite, 2M ₁	NaAl ₂ (AlSi ₃ O ₁₀)(OH) ₂	2.52x	4.39 ₉	3.20 ₈	12- 187
i Paragonite, 1M syn	NaAl ₂ (AlSi ₃ O ₁₀)(OH) ₂	3.21x	9.67 ₈	4.82 ₃	24-1047
i Paraguajuvaitite syn	Bi ₂ Se ₃	3.03x	2.23 ₆	1.40 ₄	12- 732
i Parahilgardite	Ca ₂ B ₃ O ₈ (OH) ₂ Cl	2.87x	2.83x	2.70 ₈	11- 403
i Parahopeite	Zn ₃ (PO ₄) ₂ ·4H ₂ O	7.53x	2.98 ₈	4.44 ₇	24-1461
i Parakeldyshite	Na ₂ ZrSi ₂ O ₇	3.96x	2.91 ₉	4.18 ₈	29-1293
i Parakhinite	Cu ₃ PbTeO ₄ (OH) ₆	3.34x	2.49x	4.80 ₈	29-1420
i Paralaurionite	PbCl(OH)	5.14x	3.21x	2.51 ₉	16- 158
i Paramelaconite	Cu ₄ O ₃	2.50x	1.58 ₈	1.25 ₈	3- 879
i Paramontroseite	VO ₂	3.39x	2.65 ₃	4.35 ₄	25-1003
i Parapirotite	TiSb ₃ S ₈	3.49x	2.83x	4.15 ₉	29-1330
* Pararammelsbergite syn	NiAs ₂	2.56x	2.52x	2.37 ₇	18- 876
i Paraschachnerite	Ag ₃ Hg ₂	2.27x	2.40 ₆	1.26 ₆	27- 617
* Paraspurrite	Ca ₃ (SiO ₄) ₂ CO ₃	3.47x	6.92 ₈	1.98 ₇	29- 307
i Parasymplesite	Fe ₃ (AsO ₄) ₂ ·8H ₂ O	6.83x	7.06 ₄	9.01 ₂	8- 189
* Paratacamite syn	Cu ₂ (OH) ₃ Cl	5.44x	2.27 ₈	5.50 ₇	25-1427
i Paratacamite, zincian	(Cu,Zn) ₂ (OH) ₃ Cl	2.76x	2.26 ₇	5.48 ₇	25- 325
* Paratellurite	TeO ₂	2.99x	3.40 ₉	1.87 ₆	11- 693
i Paravauxite	FeAl ₂ (PO ₄) ₂ (OH) ₂ ·8H ₂ O	9.89x	6.40 ₇	4.93 ₃	29-1424
* Pargasite	NaCa ₂ Mg ₄ Al ₃ Si ₆ O ₂₂ (OH) ₂	3.12x	8.43 ₄	3.27 ₄	23-1406
i Pargasite, ferroan	NaCa ₂ (MgFe) ₄ Al ₃ Si ₆ O ₂₂ OH ₂	2.70x	3.09x	3.38 ₉	9- 434
i Parisite	CaCe ₂ (CO ₃) ₃ F ₂	2.04g	1.28g	2.83x	2-1257
* Parkerite syn	Ni ₃ Bi ₂ S ₂	2.84x	2.86 ₇	2.34 ₆	26-1283
c Parkerite syn	Ni ₃ Bi ₂ S ₂	2.84x	3.99 ₆	2.34 ₄	25- 401
i Parnauite	Cu ₉ (AsO ₄) ₂ (SO ₄)(OH) ₁₀ ·7H ₂ O	14.3x	4.52 ₆	10.4 ₃	29- 533
i Parsettensite	Mn ₃ Si ₆ O ₁₃ (OH) ₈	12.1x	2.65x	2.79 ₈	25- 8
i Parsonsite	Pb ₂ UO ₂ (PO ₄) ₂ ·nH ₂ O	3.28x	3.25x	4.23 ₇	12- 259
c Partridgeite syn	Mn ₂ O ₃	2.72x	1.66 ₃	3.84 ₂	24- 508
i Partzite	Cu ₂ Sb ₂ (O,OH) ₇	2.95x	5.91 ₉	1.81 ₈	7- 303
i Parwelite	(Mn,Mg,Ca) ₃ SbAsSiO ₁₂	2.92x	2.73x	3.42 ₄	29- 346
i Pascoite	Ca ₃ V ₁₀ O ₂₈ ·17H ₂ O	5.50x	4.67x	5.10 ₈	21- 171
o Patronite	VS ₄	5.15x	5.47 ₆	3.92 ₃	14- 179
o Patronite syn	VS ₄	5.60x	5.18 ₇	2.47 ₃	19-1408
i Paulingite	K ₂ Ca ₁₋₃ (Si,Al) ₁₂ O ₂₄ ·14H ₂ O	8.29x	6.88x	4.78 ₄	12- 421
i Pavonite	AgBi ₂ S ₃	3.46x	2.85x	3.59 ₉	29-1138
i Paxite	Cu ₂ As ₃	3.16x	3.63 ₈	2.77 ₇	15- 261
i Pearceite	(Ag,Cu) ₁₆ As ₂ S ₁₁	3.00x	2.84 ₉	3.11 ₃	8- 132
i Pearceite, cuprian	(Ag,Cu) ₁₆ As ₂ S ₁₁	2.97x	2.80 ₉	2.47 ₆	8- 130
i Pecoraite, 2Mc ₁	Ni ₆ Si ₄ O ₁₀ (OH) ₈	7.43x	3.66 ₈	1.53 ₈	22- 754
i Pectolite	NaCa ₂ Si ₃ O ₈ OH	2.92x	3.10 ₈	3.90 ₆	12- 238
i Pekoite	CuPbBi ₁₁ (S,Se) ₁₈	3.14x	3.03 ₄	3.62 ₃	29- 560
i Pellyite	Ba ₂ Ca(Fe,Mg) ₂ Si ₄ O ₁₇	3.43x	3.19 ₇	2.31 ₆	25- 95
i Penfieldite	Pb ₂ Cl ₃ (OH)	3.73x	3.14 ₈	3.31 ₆	22- 384
i Penikisite	Ba(Mg,Fe) ₂ Al ₂ (PO ₄) ₃ (OH) ₃	3.09x	2.92 ₈	2.65 ₇	29- 169
i Penkvilksite	Na ₄ Ti ₂ Si ₈ O ₂₂ ·5H ₂ O	8.20x	3.37 ₉	2.84 ₈	26-1386
i Pennantite	(Mn ₃ Al)(Si ₃ Al) ₂ O ₁₀ (OH) ₈	7.10x	3.57 ₈	2.43 ₈	29- 884
i Penroseite	(Cu,Ni) ₂ Se ₂	2.68x	2.45x	1.81 ₉	6- 507
i Penroseite, sulfian	(Ni,Cu,Cu)(Se,S) ₂	2.63x	2.41 ₉	1.78 ₈	29-1417
i Pentagonite	Ca(VO)Si ₄ O ₁₀ ·4H ₂ O	6.07x	3.92x	3.76x	25- 181
i Pentahydrate syn	MgSO ₄ ·5H ₂ O	4.93x	3.26 ₄	2.00 ₄	25- 532
i Pentahydroborite	CaB ₂ O ₄ ·5H ₂ O	7.04x	2.99 ₉	3.54 ₆	14- 339
i Pentlandite	(Fe,Ni) ₉ S ₈	1.78x	3.03 ₈	1.93 ₃	8- 90
i Pentlandite, argentian	(Fe,Ni) ₈ Ag _{1-x} S ₈	3.17x	1.86x	2.02 ₄	25- 406
i Perhamite	Ca ₃ Al ₇ Si ₃ P ₄ O ₂₈ (OH) ₃ ·16H ₂ O	2.88x	5.80 ₇	6.08 ₃	29- 284
* Periclase syn	MgO	2.11x	1.49 ₃	1.22 ₁	4- 829
i Perite	PbBiO ₂ Cl	2.86x	1.62 ₉	3.77 ₈	13- 352
i Perloffite	BaMn ₂ Fe ₂ (PO ₄) ₃ (OH) ₃	3.17x	2.73 ₈	2.98 ₈	29- 184
i Permingeatite	Cu ₃ SbSe ₄	3.25x	1.99 ₉	1.70 ₈	25- 263
* Perovskite syn	CaTiO ₃	2.70x	1.91 ₅	2.72 ₄	22- 153
i Perrierite	Ce ₂ Ti ₂ Si ₂ O ₁₁	2.99x	2.96x	3.56 ₈	19- 302
* Petalite	LiAlSi ₄ O ₁₀	3.73g	3.67 ₉	3.65 ₆	14- 90
i Petrovicite	Cu ₃ HgPbBiSe ₅	3.12x	2.96x	3.55 ₈	29- 567
i Petscheckite, heated	UFe(Nb,Ta) ₂ O ₄	4.02x	3.21x	2.51 ₈	29-1426
i Petzite	Ag ₃ AuTe ₂	2.77x	2.12 ₈	2.03 ₇	12- 424
i Pharmacolite	CaHAsO ₄ ·2H ₂ O	4.30x	7.70 ₉	2.70 ₈	25- 138
* Pharmacosiderite	KFe ₄ (AsO ₄) ₃ (OH) ₄ ·6-7H ₂ O	7.98x	3.25 ₃	2.82 ₃	17- 466
i Pharmacosiderite, barium, aluminum	BaAl ₄ (AsO ₄) ₃ (OH) ₃ ·5H ₂ O	7.80x	2.73 ₈	3.87 ₇	19- 94
i Pharmacosiderite, Barium	BaFe ₄ (AsO ₄) ₃ (OH) ₃ ·5H ₂ O	3.28x	8.06 ₉	2.85 ₆	19- 130
* Phenakite	Be ₂ SiO ₄	3.12x	3.66 ₈	2.52 ₈	9- 431
i Phillipsite	K ₂ Ca ₂ (Al,Si) ₁₆ O ₃₂ ·13.5H ₂ O	7.18x	7.16x	3.21x	26-1310
* Phlogopite, fluor, 1M syn	KMg ₃ (Si ₃ AlO ₁₀)F ₂	9.96x	3.33 ₇	2.00 ₃	16- 344
* Phlogopite, fluor, 3T syn	KMg ₃ (Si ₃ AlO ₁₀)F ₂	3.32x	9.96 ₇	2.00 ₃	16- 352
i Phlogopite, 2M ₁	KMg ₃ (Si ₃ AlO ₁₀)(OH) ₂	10.1g	3.36g	2.62g	10- 493
i Phlogopite, 1M	KMg ₃ (Si ₃ AlO ₁₀)(OH) ₂	9.94g	3.35g	2.61 ₃	10- 495

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i	Phlogopite, 1M syn	$\text{KMg}_3(\text{Si}_3\text{AlO}_{10})(\text{OH})_2$	10.2x	3.39x	2.62 ₉	24- 867
i	Phlogopite, 3T	$\text{KMg}_3(\text{Si}_3\text{AlO}_{10})(\text{OH})_2$	10.1g	3.35g	2.01g	10- 492
i	Phoenicochroite	$\text{Pb}_2(\text{CrO}_4)_2\text{O}$	3.38x	2.98x	6.43 ₃	29- 769
i	Phosgenite	$\text{Pb}_2(\text{CO}_3)\text{Cl}_2$	2.79x	3.61 ₈	2.56 ₈	12- 218
i	Phosinaite	$\text{Na}_3(\text{Ca,Ce})\text{SiPO}_7 \cdot \text{H}_2\text{O}$	2.74x	7.44 ₆	2.57 ₆	27- 666
*	Phosphammite syn	$(\text{NH}_4)_2\text{HPO}_4$	5.05x	5.57 ₈	4.94 ₇	29- 111
i	Phosphoferrite	$(\text{Fe,Mn})_3(\text{PO}_4)_2 \cdot 3\text{H}_2\text{O}$	3.18x	2.72 ₈	4.25 ₇	9- 479
i	Phosphophyllite	$\text{Zn}_2(\text{Fe,Mn})(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$	2.83x	4.40x	8.84 ₈	17- 474
i	Phosphophyllite	$\text{Zn}_2\text{Fe}(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$	4.44x	8.86 ₉	3.38 ₆	29-1427
i	Phosphosiderite	$\text{FePO}_4 \cdot 2\text{H}_2\text{O}$	2.78x	4.69 ₈	4.37 ₈	15- 390
i	Phosphuranylite	$\text{Ca}(\text{UO}_2)_3(\text{PO}_4)_2(\text{OH})_2 \cdot 6\text{H}_2\text{O}$	3.16x	3.09x	2.88x	19- 898
i	Phurcalite	$\text{Ca}_2(\text{UO}_2)_3(\text{PO}_4)_2(\text{OH})_4 \cdot 4\text{H}_2\text{O}$	8.05x	3.10 ₈	3.09 ₈	29- 391
o	Pickeringite	$\text{MgAl}_2(\text{SO}_4)_4 \cdot 22\text{H}_2\text{O}$	4.82x	3.51 ₆	4.32 ₄	12- 299
i	Picotpaulite	TiFe_2S_3	2.91x	4.26 ₉	3.80 ₇	25- 953
*	Picromerite syn	$\text{K}_2\text{Mg}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$	3.71x	4.06x	4.16 ₉	21-1400
i	Picropharmacolite	$(\text{Ca,Mg})_3(\text{AsO}_4)_2 \cdot 6\text{H}_2\text{O}$	13.5x	3.18 ₈	9.20 ₆	14- 222
i	Piemontite	$\text{Ca}_2(\text{Al,Fe,Mn})_3\text{Si}_3\text{O}_{12}\text{OH}$	2.91x	3.50 ₈	2.84 ₆	19- 897
i	Piemontite	$\text{Ca}_2\text{Al}_3(\text{SiO}_4)_3(\text{OH})$	2.90x	4.00 ₃	2.60 ₃	29- 288
i	Pierrotite	$\text{Ti}_2(\text{Sb,As})_{10}\text{S}_{17}$	3.59x	3.49 ₉	2.70 ₉	25- 938
i	Pigeonite	$(\text{Fe,Mg,Ca})\text{SiO}_3$	3.02x	2.90x	3.21 ₈	13- 421
o	Pinakiolite	$(\text{Mg,Mn})_2\text{Mn}(\text{BO}_3)_2\text{O}_2$	2.51x	2.70 ₉	5.42 ₈	12- 170
i	Pinchite	$\text{Hg}_3\text{O}_4\text{Cl}_2$	2.84x	2.70 ₈	3.94 ₆	26-1267
i	Pinnoite	$\text{Mg}(\text{BO}_2)_2 \cdot 3\text{H}_2\text{O}$	5.39x	2.31 ₇	2.05 ₅	25-1119
*	Pirssonite	$\text{Na}_2\text{Ca}(\text{CO}_3)_2 \cdot 2\text{H}_2\text{O}$	2.51x	2.65 ₉	2.57 ₈	22- 476
*	Pirssonite syn	$\text{Na}_2\text{Ca}(\text{CO}_3)_2 \cdot 2\text{H}_2\text{O}$	2.67x	2.58x	5.15x	24-1065
i	Pisekite, heated	$(\text{As,Ca,Ln})(\text{Nb})(\text{O,OH})_4$	2.96x	1.56 ₈	1.82 ₇	25- 702
*	Plagionite	$\text{Pb}_3\text{Sb}_8\text{S}_{17}$	3.21x	3.26 ₉	2.91 ₉	22-1129
i	Planchite	$\text{Cu}_8(\text{Si}_4\text{O}_{11})_2(\text{OH})_4 \cdot x\text{H}_2\text{O}$	10.1x	4.06 ₉	6.94 ₇	29- 576
i	Platarsite	$(\text{Pt,Rh,Ru})(\text{As,S})_2$	1.75x	2.90 ₉	3.35 ₈	29- 974
i	Platinum	(Pt,Fe,Ir)	1.93x	1.17x	1.36 ₇	29-1423
i	Platinum, ferroan	(Pt,Fe)	2.20x	1.91 ₈	1.15 ₇	29- 718
i	Platinum, ferroan syn	(Pt,Fe)	2.24x	1.17 ₈	1.94 ₆	29- 717
*	Platinum syn	Pt	2.27x	1.96 ₃	1.18 ₃	4- 802
*	Plattnerite	PbO_2	3.50x	2.79x	1.86 ₈	25- 447
i	Playfairite	$\text{Pb}_{16}(\text{Sb,As})_{18}\text{S}_{43}$	3.39x	3.32x	2.79 ₇	20- 563
o	Plombierite	$\text{Ca}_3\text{H}_2\text{Si}_6\text{O}_{18} \cdot 6\text{H}_2\text{O}$	3.09x	2.81x	1.83x	10- 416
o	Plumalsite	$\text{Pb}_4\text{Al}_2(\text{SiO}_3)_7$	4.08x	1.96 ₈	2.78 ₈	29- 758
i	Plumboferrite	PbFe_4O_7	2.64x	2.81 ₆	1.68 ₅	9- 48
i	Plumboferrite	PbFe_4O_7	2.64x	2.81 ₆	2.96 ₈	22- 656
i	Plumboferrite syn	Fe_4PbO_7	2.80x	2.64 ₉	2.95 ₇	18- 640
i	Plumbogummite	$\text{PbAl}_3(\text{PO}_4)_2(\text{OH})_8 \cdot \text{H}_2\text{O}$	2.97x	5.71 ₉	2.22 ₈	29- 757
i	Plumbojarosite	$\text{PbFe}_6(\text{SO}_4)_4(\text{OH})_{12}$	3.07x	5.93x	1.83 ₇	18- 698
i	Plumbonacrite syn	$\text{Pb}_{10}(\text{CO}_3)_6(\text{OH})_6\text{O}$	2.62x	4.26 ₈	3.36 ₇	19- 680
i	Plumbopalladinite syn	Pb_2Pd_3	2.30x	2.24x	1.60 ₈	4- 797
i	Plumbopyrochlore	$(\text{Pb,Ln})_2-x(\text{Nb,Ta})_2\text{O}_6(\text{OH})$	3.02x	1.86 ₉	1.58 ₉	25- 453
i	Poitevinite	$(\text{Cu,Fe})\text{SO}_4 \cdot \text{H}_2\text{O}$	3.46x	4.72 ₃	3.08 ₃	15- 120
i	Polarite	$\text{Pd}(\text{Pb,Bi})$	2.65x	2.16 ₉	2.25 ₃	23-1298
i	Pollucite	$\text{CsAlSi}_2\text{O}_6 \cdot x\text{H}_2\text{O}$	3.42x	2.91 ₃	3.65 ₃	25- 194
i	Pollucite syn	$\text{CsAlSi}_2\text{O}_6$	3.42x	3.66 ₃	2.91 ₃	29- 407
i	Polybasite	$(\text{Ag,Cu})_{16}\text{Sb}_2\text{S}_{11}$	3.00x	3.19 ₉	2.88 ₈	8- 123
i	Polydymite	Ni_3S_4	1.67x	2.85 ₉	2.36 ₉	8- 106
*	Polyhalite	$\text{K}_2\text{Ca}_2\text{Mg}(\text{SO}_4)_4 \cdot 2\text{H}_2\text{O}$	3.18x	2.91 ₃	2.89 ₃	21- 982
*	Polythionite, 1M syn	$\text{KLi}_2\text{AlSi}_4\text{O}_{10}\text{F}_2$	3.59x	3.31x	3.07x	21- 952
*	Portlandite syn	$\text{Ca}(\text{OH})_2$	2.63x	4.90 ₇	1.93 ₄	4- 733
*	Posnjakite syn	$\text{Cu}_4\text{SO}_4(\text{OH})_8 \cdot \text{H}_2\text{O}$	6.94x	3.47 ₃	2.70 ₃	20- 364
i	Potarite syn	HgPd	2.34x	1.27 ₈	1.40 ₆	13- 149
*	Potassium Alum syn	$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	4.30x	3.25 ₆	4.05 ₃	7- 17
c	Potassium-richterite syn	$\text{KNaCaMg}_3\text{Si}_8\text{O}_{22}(\text{OH})_2$	2.71x	3.39 ₉	2.54 ₈	25- 675
i	Poubaite	$\text{PbBi}_2(\text{Se,Te})_4$	3.09x	2.13 ₈	2.25 ₇	29- 762
i	Poughite	$\text{Fe}_2(\text{TeO}_3)_2\text{SO}_4 \cdot 3\text{H}_2\text{O}$	7.10x	5.74x	3.24 ₇	21- 435
*	Powellite syn	CaMoO_4	3.10x	1.93 ₃	4.76 ₃	29- 351
i	Prehnite	$\text{Ca}_2\text{Al}_2\text{Si}_2\text{O}_{10}(\text{OH})_2$	3.08x	3.48 ₉	2.56 ₇	29- 290
i	Priceite	$\text{Ca}_8\text{B}_{10}\text{O}_{19} \cdot 7\text{H}_2\text{O}$	10.9x	3.63x	5.46 ₈	9- 147
i	Priceite	$\text{Ca}_8\text{B}_{10}\text{O}_{19} \cdot 7\text{H}_2\text{O}$	10.8x	3.48 ₈	5.97 ₇	10- 463
i	Priderite	$(\text{K,Ba})(\text{Ti,Fe})_8\text{O}_{16}$	3.20x	7.14 ₇	5.05 ₇	6- 296
*	Probertite	$\text{NaCaB}_5\text{O}_{10} \cdot 5\text{H}_2\text{O}$	9.12x	2.81 ₄	6.62 ₂	12- 420
i	Prosopite	$\text{CaAl}_2(\text{F,OH})_8$	4.35x	2.13 ₆	1.84 ₆	5- 307
i	Proustite syn	$\text{Ag}_2\text{As}_2\text{S}_3$	2.74x	2.48 ₉	3.27 ₈	11- 470
o	Przhevalskite syn	$\text{Pb}(\text{UO}_2)_2(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$	3.61x	9.08 ₉	1.62 ₆	29- 787
i	Pseudo-autunite	$(\text{H}_3\text{O})_4\text{Ca}_2(\text{UO}_2)_2(\text{PO}_4)_4 \cdot 5\text{H}_2\text{O}$	6.20x	3.25x	1.92 ₉	18-1084
*	Pseudoboleite	$\text{Ag}_9\text{Pb}_{26}\text{Cu}_{24}\text{Cl}_{61}\text{OH}_{48} \cdot 3\text{H}_2\text{O}$	4.43x	3.83x	2.71x	22- 470
i	Pseudobraakite syn	Fe_2TiO_5	3.48x	2.75 ₈	4.90 ₃	9- 182
i	Pseudo-ixiolite	$(\text{Mn,Ta,Nb})\text{O}_2$	2.99x	3.67 ₃	1.73 ₃	25- 550
i	Pseudolaueite	$\text{MnFe}_2(\text{PO}_4)_2(\text{OH})_2 \cdot 7-8\text{H}_2\text{O}$	9.93x	5.87 ₇	3.47 ₄	12- 294
i	Pseudomalachite	$\text{Cu}_3(\text{PO}_4)_2(\text{OH})_4$	4.49x	2.39 ₇	2.44 ₆	13- 28
o	Pseudorutile	$\text{Fe}_2\text{Ti}_3\text{O}_9$	1.69x	2.49 ₉	2.19 ₃	19- 635
*	Pucherite	BiVO_4	3.50x	2.70x	4.64 ₆	12- 293
i	Pumpellyite	$\text{Ca}_2(\text{AlFe})_3\text{Si}_3\text{O}_{11}(\text{OH})_2 \cdot \text{H}_2\text{O}$	2.90x	3.79 ₃	2.74 ₃	10- 447
*	Pumpellyite	$\text{Ca}_2\text{MgAl}_2(\text{Si}_3\text{O}_{11})(\text{OH})_2 \cdot \text{H}_2\text{O}$	2.90x	2.92 ₆	4.37 ₃	25- 156
i	Purpurite	$(\text{Mn,Fe})\text{PO}_4$	2.95x	2.45x	4.37 ₇	17- 202

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i	P-veatchite	$\text{Sr}_2\text{B}_{11}\text{O}_{16}(\text{OH})_3 \cdot \text{H}_2\text{O}$	10.4x	3.31 ₆	2.59 ₃	13- 154
*	Pyrrargyrite syn	Ag_3SbS_3	2.78x	3.22 ₇	2.57 ₆	21-173
*	Pyrite syn	FeS_2	1.63x	2.71 ₉	2.43 ₇	6- 710
i	Pyroaurite	$\text{Mg}_6\text{Fe}_2\text{CO}_3(\text{OH})_{16} \cdot 4\text{H}_2\text{O}$	7.77x	3.89 ₈	2.62 ₃	25- 521
i	Pyrobelonite	$\text{PbMn}(\text{VO}_4)(\text{OH})$	3.24x	5.14 ₇	2.64 ₇	20- 588
i	Pyrochlore	$(\text{Ca}, \text{Na})_2(\text{Nb}, \text{Ti})_2\text{O}_6\text{F}$	3.01x	1.84 ₂	2.61 ₂	17- 746
i	Pyrochlore	$(\text{Na}, \text{Ca}, \text{U})_2(\text{Nb}, \text{Ta})_2\text{O}_6\text{F}$	3.00x	1.84 ₆	1.57 ₅	13- 254
i	Pyrochlore, heated	$(\text{Ca}, \text{Na})_2(\text{Nb}, \text{Ti})_2\text{O}_6\text{F}$	3.00x	1.83 ₄	1.56 ₃	17- 747
i	Pyrochroite syn	$\text{Mn}(\text{OH})_2$	2.45x	4.72 ₉	1.83 ₆	18- 787
*	Pyrolusite syn	$\beta\text{-MnO}_2$	3.11x	2.41 ₆	1.62 ₆	24- 735
*	Pyromorphite syn	$\text{Pb}_3(\text{PO}_4)_3\text{Cl}$	2.99x	2.96 _x	2.89 ₆	19- 701
*	Pyrope syn	$\text{Mg}_3\text{Al}_2(\text{SiO}_4)_3$	2.56x	2.86 ₆	1.53 ₃	15- 742
*	Pyrophanite syn	MnTiO_3	2.79x	2.57 ₇	1.89 ₄	29- 902
i	Pyrophyllite, 2M ₁	$\text{Al}_2\text{Si}_4\text{O}_{10}(\text{OH})_2$	3.08x	9.21 ₆	4.58 ₅	12- 203
*	Pyrophyllite, 1Tc	$\text{Al}_2\text{Si}_4\text{O}_{10}(\text{OH})_2$	4.42x	9.20 ₉	3.07 ₉	25- 22
i	Pyrosmalite	$(\text{Mn}, \text{Fe})_8\text{Si}_6\text{O}_{13}(\text{OH}, \text{Cl})_{10}$	2.69x	7.16 ₈	2.25 ₇	12- 268
i	Pyrostilpnite	Ag_3SbS_3	2.85x	2.65 ₃	2.42 ₃	8- 129
c	Pyrostilpnite	Ag_3SbS_3	3.22x	3.12 ₉	2.84 ₇	25-1187
*	Pyroxferroite	$(\text{Fe}_{0.86}\text{Ca}_{0.14})\text{SiO}_3$	2.93x	2.67 ₆	3.09 ₃	20- 1
i	Pyroxmangite syn	MnSiO_3	2.97x	2.19 ₃	4.73 ₄	29- 895
i	Pyroxmangite, ferroan	$(\text{Mn}, \text{Fe})\text{SiO}_3$	2.95x	2.67 ₆	3.11 ₃	25- 147
c	Pyrrhotite, 4C	Fe_7S_8	2.97x	2.05 _x	2.06 ₉	24- 79
i	Pyrrhotite, 4C	Fe_{1-x}S	2.06x	2.64 ₃	2.98 ₄	22-1120
i	Pyrrhotite, 4C	Fe_{1-x}S	2.64x	2.05 _x	2.06 ₉	29- 723
i	Pyrrhotite, 11C	Fe_{1-x}S	2.07x	2.65 ₆	2.99 ₄	29- 726
i	Pyrrhotite, 5C	Fe_{1-x}S	2.07x	2.65 ₉	1.72 ₄	29- 724
i	Pyrrhotite, 6C	Fe_{1-x}S	2.07x	2.65 ₇	2.99 ₄	29- 725
*	Pyrrhotite, 1C syn	Fe_{1-x}S	2.07x	2.65 ₄	2.98 ₃	25- 411
i	Pyrrhotite, 7C syn	Fe_{1-x}S	2.07x	2.98 ₉	2.65 ₈	20- 534
c	Pyrrhotite, 3C syn	Fe_7S_8	2.06x	2.64 ₆	2.97 ₃	24- 220
*	Quartz, low	$\alpha\text{-SiO}_2$	3.34x	4.26 ₄	1.82 ₂	5- 490
i	Quenselite	$\text{PbMnO}_2(\text{OH})$	3.04x	2.72 ₈	3.68 ₇	23- 351
i	Quenstedtite	$\text{Fe}_2(\text{SO}_4)_3 \cdot 10\text{H}_2\text{O}$	4.08x	5.78 ₈	4.19 ₉	17- 160
c	Quenstedtite	$\text{Fe}_2(\text{SO}_4)_3 \cdot 11\text{H}_2\text{O}$	4.11x	4.22 ₉	5.84 ₇	28- 496
i	Quetzalcoatlite	$\text{Cu}_4\text{Zn}_8(\text{TeO}_3)_3(\text{OH})_{18}$	8.75x	2.75 ₇	3.53 ₄	26- 485
i	Rabbittite	$\text{Ca}_3\text{Mg}_3(\text{UO}_2)_2(\text{CO}_3)_6(\text{OH})_4 \cdot 18\text{H}_2\text{O}$	8.24x	7.79 ₉	4.37 ₈	7- 365
i	Raguinite	TiFeS_2	2.89x	4.17 ₆	3.35 ₆	22-1468
i	Raite	$\text{Na}_4\text{Mn}_3\text{Si}_8(\text{O}, \text{OH})_{24} \cdot 9\text{H}_2\text{O}$	11.4x	2.94 _x	2.65 _x	25-1318
i	Ralstonite	$\text{NaMgAlF}_6 \cdot \text{H}_2\text{O}$	5.74x	1.77 ₉	2.88 ₈	18-1085
o	Ramdohrite	$\text{Pb}_2\text{AgSb}_3\text{S}_7$	3.32x	2.94 ₆	2.78 ₅	25- 459
i	Rameauite	$\text{K}_2\text{Ca}(\text{UO}_2)_2\text{O}_8 \cdot 9\text{H}_2\text{O}$	7.12x	3.50 _x	3.14 _x	25- 631
i	Rammelsbergite, cobaltian	$(\text{Ni}, \text{Co})\text{As}_2$	2.82x	2.52 ₉	1.84 ₇	15- 441
*	Rammelsbergite syn	NiAs_2	2.55x	2.48 ₉	2.84 ₇	11- 14
i	Ramsdellite	MnO_2	4.07x	2.55 _x	1.66 ₈	7- 222
i	Rancieite	$(\text{Ca}, \text{Mn})\text{Mn}_4\text{O}_9 \cdot 3\text{H}_2\text{O}$	7.49x	3.74 ₁	2.46 ₁	22- 718
i	Rankamaite	$(\text{NaK Pb})_3(\text{Ta Nb})_{11}(\text{OOH})_{30}$	2.97x	3.01 ₈	3.38 ₆	25- 9
*	Rankinite	$\text{Ca}_3\text{Si}_2\text{O}_7$	2.72x	3.18 ₈	4.48 ₇	22- 539
i	Rankinite syn	$\text{Ca}_3\text{Si}_2\text{O}_7$	3.02x	2.72 ₈	3.18 ₇	23- 124
*	Raspite	PbWO_4	3.22x	2.76 ₆	3.62 ₆	16- 156
c	Raspite	PbWO_4	3.63x	2.71 ₆	3.23 ₄	29- 784
i	Rasvumite	KFe_2S_3	2.99x	1.80 ₉	5.54 ₈	25- 653
i	Rathite	$(\text{Pb}, \text{Ti})_3\text{As}_2\text{S}_{10}$	2.75x	3.60 ₈	3.39 ₇	9- 426
o	Rauenthalite	$\text{Ca}_3(\text{AsO}_4)_2 \cdot 10\text{H}_2\text{O}$	10.8x	3.36 ₈	2.44 ₆	17- 163
i	Rauvite	$\text{Ca}(\text{UO}_2)_2\text{V}_{10}\text{O}_{28} \cdot 16\text{H}_2\text{O}$	10.7x	2.95 ₃	3.49 ₄	8- 288
i	Realgar, high syn	$\beta\text{-AsS}$	3.01x	2.89 _x	5.75 ₈	25- 57
*	Realgar syn	$\alpha\text{-AsS}$	5.41x	3.16 ₈	2.72 ₇	24- 77
i	Rectorite	$\text{NaAl}_4\text{Si}_8\text{O}_{20}(\text{OH})_4 \cdot 2\text{H}_2\text{O}$	23.8x	11.9 ₇	3.40 ₂	25- 781
i	Reddingite	$(\text{Mn}, \text{Fe})_3(\text{PO}_4)_2 \cdot 3\text{H}_2\text{O}$	3.20x	2.74 ₈	4.28 ₇	9- 496
i	Redledgeite	$\text{Mg}_4\text{Cr}_6\text{Ti}_{23}\text{Si}_3\text{O}_{61}(\text{OH})_4$	3.19x	2.46 ₉	2.22 ₉	16- 149
*	Reedmergerite	NaBSi_3O_8	3.04x	3.56 ₉	3.08 ₉	18-1201
i	Reevesite	$\text{Ni}_6\text{Fe}_2(\text{CO}_3)(\text{OH})_{16} \cdot 4\text{H}_2\text{O}$	7.60x	3.80 ₃	2.60 ₃	26-1286
i	Refikite	$\text{C}_{20}\text{H}_{32}\text{O}_2$	5.50x	6.09 ₉	5.20 ₇	28-2009
i	Reinerite	$\text{Zn}_3(\text{AsO}_3)_2$	4.00x	3.20 ₈	2.64 ₈	11- 158
i	Renardite	$\text{Pb}(\text{UO}_2)_4(\text{PO}_4)_2(\text{OH})_4 \cdot 7\text{H}_2\text{O}$	7.97x	3.99 ₉	5.83 ₈	8- 328
i	Renardite syn	$\text{Pb}(\text{UO}_2)_4(\text{PO}_4)_2(\text{OH})_4 \cdot 8\text{H}_2\text{O}$	3.07x	3.87 ₉	4.39 ₈	11- 215
i	Renierite	$\text{Cu}_3(\text{Fe}, \text{Ge})(\text{S}, \text{As})_4$	3.06x	1.87 ₈	1.60 ₆	9- 424
*	Retgersite syn	$\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$	4.25x	4.57 ₄	2.96 ₂	8- 470
i	Retzian	$\text{Mn}_2\text{YAsO}_4(\text{OH})_4$	2.72x	3.53 ₈	1.85 ₃	20- 731
i	Royerite	$\text{NaCa}_7\text{Si}_{11}\text{AlO}_{29}(\text{OH})_4 \cdot \text{H}_2\text{O}$	3.15x	2.85 ₉	1.84 ₇	29-1039
i	Rhabdophane	$(\text{Y}, \text{La})\text{PO}_4 \cdot \text{H}_2\text{O}$	3.02x	4.40 ₈	2.83 ₈	12- 277
*	Rhenium	Re	2.11x	2.23 ₃	2.39 ₃	5- 702
*	Rhodesite	$(\text{CaKNa})_7\text{-}_8\text{Si}_{16}\text{O}_{40} \cdot 11\text{H}_2\text{O}$	6.55x	4.39 ₃	5.90 ₄	22-1253
i	Rhodium, platinumian	$\text{Rh}_{0.37}\text{Pt}_{0.43}$	2.23x	1.36 ₉	1.16 ₉	27- 504
*	Rhodium syn	Rh	2.20x	1.90 ₃	1.15 ₃	5- 685
*	Rhodizite	$\text{CsAl}_4\text{Be}_4\text{B}_{11}\text{O}_{25}(\text{OH})_4$	2.98x	3.27 ₃	2.44 ₃	18- 327
*	Rhodochrosite syn	MnCO_3	2.84x	3.66 ₄	1.76 ₄	7- 268
*	Rhodonite	MnSiO_3	2.77x	2.98 ₇	2.92 ₇	13- 138
*	Rhodostannite	$\text{Cu}_2\text{FeSn}_3\text{S}_8$	3.12x	5.93 ₆	2.58 ₃	21- 878
i	Rhodostannite syn	$\text{Cu}_2\text{FeSn}_3\text{S}_8$	1.83x	3.11 _x	2.58 ₈	29- 558
*	Rhomboclase syn	$\text{FeH}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$	3.11x	4.05 ₃	3.33 ₃	27- 245

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i	Rhombomagnojacobsite	(Mn,Mg)(Mn,Fe) ₂ O ₄	2.54x	2.50x	2.98 ₈	18- 791
i	Rhonite	Ca ₂ (FeMgTi) ₆ (SiAl) ₆ O ₂₀	2.95x	2.55 ₇	2.69 ₇	23- 607
	Richellite, heated	(Ca,Fe)(Fe,Al) ₂ (PO ₄) ₂ (OHF) ₂	3.24x	1.59 ₆	3.58 ₇	15- 632
o	Richetite	U-Pb-H ₂ O	3.56x	3.48x	7.14 ₉	25- 467
*	Richterite, calcian syn	(NaCa) ₂₋₇₅ Mg ₃ Si ₈ O ₂₂ (OH) ₂	3.15x	3.28 ₃	8.48 ₃	23- 665
c	Richterite syn	Na ₂ CaMg ₃ Si ₈ O ₂₂ (OH) ₂	2.71x	3.39 ₇	2.53 ₇	25- 808
i	Rickardite syn	Cu ₇ Te ₃	3.34x	2.07x	3.35 ₉	26-1117
*	Riebeckite	Na ₂ Fe ₃ (SiAl) ₈ O ₂₂ OH ₂	8.40x	3.12 ₆	2.73 ₄	19-1061
i	Ringwoodite, ferroan	(Mg,Fe) ₂ SiO ₄	2.45x	1.43 ₆	2.03 ₄	21-1258
i	Ringwoodite syn	Mg ₂ SiO ₄	2.48x	1.68 ₃	1.58 ₃	13- 230
o	Rinneite	K ₃ NaFeCl ₆	2.51x	6.00 ₆	2.59 ₃	20- 925
*	Rivadavite	Na ₆ MgB ₂₄ O ₄₀ ·22H ₂ O	14.2x	7.59x	3.25 ₇	19-1211
	Riversideite, 9A	Ca ₃ Si ₆ O ₁₈ H ₂	3.01x	3.15 ₂	2.78 ₂	29- 329
	Robertsite	Ca ₃ Mn ₄ (PO ₄) ₄ (OH) ₆ ·3H ₂ O	8.63x	2.75 ₆	5.61 ₅	26-1067
o	Robinsonite, bismuthian	Pb ₉ Sb ₇ Bi ₅ S ₂₃	2.78x	3.41 ₉	3.04 ₈	21-1018
i	Robinsonite syn	Pb ₄ Sb ₄ S ₁₃	2.77x	3.04 ₈	3.41 ₇	21- 463
i	Rockbridgeite	Fe ₃ (PO ₄) ₃ (OH) ₃	3.20x	4.84 ₃	3.57 ₃	22- 356
	Rockbridgeite	Fe ₃ (PO ₄) ₃ (OH) ₃	3.19x	3.39 ₃	1.59 ₃	8- 159
i	Rodalquilarite	Fe ₂ H ₃ (TeO ₃) ₄ Cl	4.24x	2.62 ₈	3.31 ₆	20- 536
i	Roebbingite	Ca ₇ Pb ₂ (SO ₄) ₂ Si ₆ O ₁₄ (OH) ₁₀	2.94x	3.00 ₉	3.10 ₈	18- 292
*	Roebbingite	Ca ₇ Pb ₂ (SO ₄) ₂ Si ₆ O ₁₄ (OH) ₁₀	3.15x	4.20 ₈	3.04 ₆	16- 411
	Roedderite	(Na,K) ₂ Mg ₃ (Si,Al) ₁₂ O ₃₀	3.23x	4.38 ₉	3.73 ₉	23- 76
i	Roemerite	Fe ₃ (SO ₄) ₄ ·14H ₂ O	4.79x	4.03 ₃	5.05 ₃	13- 530
*	Roesslerite syn	MgHAsO ₄ ·7H ₂ O	4.08x	6.43 ₉	4.49 ₉	26-1447
i	Roggianite	NaCa ₆ Al ₄ Si ₁₃ O ₂₆ (OH) ₄₀	13.1x	9.27 ₈	6.13 ₈	25-1321
i	Romanechite	BaMn ₉ O ₁₆ (OH) ₄	2.19x	3.47 ₇	2.88 ₇	18- 174
*	Romanechite	BaMn ₉ O ₁₆ (OH) ₄	2.41x	2.19 ₉	3.48 ₆	14- 627
*	Romarchite syn	SnO	2.99x	2.69 ₄	1.80 ₃	6- 395
	Romeite	CaSb ₂ O ₆ (F,O,OH)	2.95x	6.00 ₈	1.83 ₈	27- 89
*	Rooseveltite syn	BiAsO ₄	3.15x	2.96 ₇	4.82 ₄	25- 89
*	Roquesite syn	CuInS ₂	3.20x	1.96 ₃	1.67 ₁	27- 159
o	Rosasite	(Cu,Zn) ₂ CO ₃ (OH) ₂	3.68x	2.59x	5.04 ₈	17- 216
i	Rosasite, zincian	(Cu,Zn) ₂ CO ₃ (OH) ₂	3.74x	5.14 ₉	2.63 ₉	18-1095
i	Roscherite	(CaMn) ₃ Be ₃ (PO ₄) ₃ OH ₃ ·2H ₂ O	5.96x	9.58 ₉	3.18 ₇	11- 355
	Roscoelite, 1M	KAlV ₂ Si ₃ O ₁₀ (OH) ₂	10.0x	4.54 ₈	3.35 ₈	10- 496
*	Roscoelite, 1M syn	KAlV ₂ Si ₃ O ₁₀ (OH) ₂	2.58x	4.51x	10.2 ₇	19- 933
*	Roselite	Ca ₂ (Co,Mg)(AsO ₄) ₂ ·2H ₂ O	2.99x	3.22 ₈	3.35 ₆	29- 315
i	Rosenbuschite	(Na,Ca) ₃ (Fe,Ti,Zr)(SiO ₄) ₃ F	2.94x	3.06 ₈	1.89 ₆	14- 447
i	Rosenhahnite	Ca ₃ (Si ₃ O ₈ (OH) ₂) ₂	2.97x	3.20 ₈	3.04 ₇	29- 378
i	Roubaultite	Cu ₂ (UO ₂) ₃ (OH) ₁₀ ·5H ₂ O	5.55x	7.74 ₉	6.88 ₈	25- 318
i	Routhierite	TiHgAsS ₃	4.15x	2.99x	2.50 ₉	29-1338
*	Roweite	Ca ₂ Mn ₂ B ₄ O ₇ (OH) ₆	3.97x	2.60 ₇	2.18 ₅	26-1065
	Rowlandite, heated	(Y,Fe,Ca,Ce) ₃ (SiO ₄) ₂ (F,OH)	3.06x	4.87 ₆	3.51 ₆	13- 565
i	Rozenite	FeSO ₄ ·4H ₂ O	4.47x	5.46 ₉	3.97 ₇	16- 699
	Rucklidgeite	(Bi,Pb) ₃ Te ₄	3.22x	2.34 ₉	1.47 ₆	29- 234
i	Ruizite	CaMn(SiO ₃) ₂ (OH)·2H ₂ O	12.0x	4.19 ₇	3.12 ₆	29- 350
	Rusakovite	(Fe,Al) ₃ (OH) ₉ ((VP)O ₄) ₂ ·3H ₂ O	3.21x	2.95 ₉	2.44 ₈	14- 60
i	Russellite	Bi ₂ WO ₆	3.12x	1.64x	1.92 ₉	26-1044
i	Rustenburtite	(Pt,Pd) ₃ Sn	2.30x	1.20x	1.41 ₉	29- 968
c	Rustumite	Ca ₁₀ (Si ₂ O ₇) ₂ (SiO ₄)Cl ₂ (OH) ₂	3.03x	2.88x	3.19 ₆	29- 314
i	Rustumite	Ca ₁₀ (Si ₂ O ₇) ₂ SiO ₄ Cl ₂ (OH) ₂	3.03x	2.89 ₉	3.19 ₈	18- 305
i	Ruthenarsenite	(Ru,Ni)As	2.06x	2.70 ₇	2.12 ₃	26- 947
*	Ruthenium syn	Ru	2.06x	2.34 ₄	2.14 ₄	6- 663
i	Rutherfordine	UO ₂ CO ₃	4.61x	4.30 ₇	3.23 ₄	11- 263
*	Rutile syn	TiO ₂	3.25x	1.69 ₆	2.49 ₃	21-1276
i	Rynersonite	Ca(Ta,Nb) ₂ O ₆	3.04x	4.84 ₉	2.96 ₉	29- 356
i	Rynersonite syn	CaTa ₂ O ₆	4.84x	3.75x	3.04x	29- 385
	Sabugalite	HAl(UO ₂) ₄ (PO ₄) ₄ ·16H ₂ O	9.69x	4.86 ₉	3.47 ₈	5- 107
	Safflorite	(Co,Fe)As ₂	2.38x	2.57 ₈	2.60 ₆	23- 88
*	Safflorite	(Fe,Co)As ₂	2.60x	2.55 ₈	2.35 ₇	20- 330
*	Safflorite syn	(Co,Fe)As ₂	2.59x	2.57x	2.36 ₉	11- 140
i	Sahamallite	(MgFe)(CeLaNdPr) ₂ (CO ₃) ₄	3.90x	3.65x	2.87x	6- 189
	Sahlinite	Pb ₁₄ (AsO ₄) ₂ O ₄ Cl ₄	3.01x	2.94x	2.81x	22- 664
i	Sainfeldite	Ca ₃ H ₂ (AsO ₄) ₄ ·4H ₂ O	3.37x	3.18 ₈	8.70 ₆	16- 615
i	Sakhaite	Ca ₁₂ Mg ₄ C ₄ B ₇ O ₃₃ Cl(OH) ₂ ·H ₂ O	2.58x	2.11 ₆	5.16 ₂	19-1112
	Sakharovite	Pb(Bi,Sb) ₂ S ₄	3.41x	2.72 ₆	2.03 ₆	25-1398
i	Sakuraiite	(CuZnFeAg) ₃ (InSn) ₄	3.15x	1.93 ₄	1.65 ₂	21- 882
*	Salammoniac syn	NH ₄ Cl	2.74x	3.87 ₃	1.58 ₃	7- 7
	Saleeite	Mg(UO ₂) ₂ (PO ₄) ₂ ·8-10H ₂ O	9.85x	3.49 ₉	4.95 ₈	8- 313
	Saleeite syn	Mg(UO ₂) ₂ (PO ₄) ₂ ·9H ₂ O	3.50x	9.79 ₉	5.00 ₈	29- 874
*	Salesite	CuIO ₃ (OH)	4.37x	3.66 ₇	2.39 ₆	22- 236
i	Salesite	Cu(IO ₃)(OH)	3.66x	2.64 ₄	1.83 ₄	19- 391
	Samarskite	La(Nb) ₂ O ₆	2.95x	1.71x	1.45x	2- 717
	Samarskite, heated	(Ce,Cu,Ca)Nb ₂ O ₆	2.97x	1.82 ₆	1.56 ₈	2- 690
	Samarskite, heated	(Y,U,Fe)(Nb,Ta,Ti) ₂ O ₆	3.07x	2.92x	2.59 ₄	4- 617
o	Samarskite, heated	(Y,Er)(Nb,Ta) ₂ O ₆	2.98x	2.92 ₉	3.13 ₄	10- 398
	Sampleite	NaCaCu ₃ (PO ₄) ₄ Cl·H ₂ O	9.60x	3.04x	4.30 ₈	11- 349
i	Samsonite	Ag ₄ MnSb ₂ S ₆	3.20x	3.01 ₉	2.59 ₆	11- 74
	Samuelsonite	Ca ₉ Fe ₂ Mn ₂ Al ₂ (PO ₄) ₁₀ (OH) ₂	3.06x	2.66 ₇	3.03 ₆	29- 154
*	Sanbornite syn	β-BaSi ₂ O ₅	3.10x	3.97 ₉	3.34 ₇	26- 176

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					File No.
* Sanidine	(Na,K)AlSi ₃ O ₈	3.26x	3.22 ₉	3.76 ₈	19-1227
* Sanidine, high	KAlSi ₃ O ₈	3.33x	3.28 ₉	4.24 ₈	25- 618
Sanidine, high syn	Na _{0.61} K _{0.39} AlSi ₃ O ₈	3.25x	3.21 ₄	3.75 ₄	10- 357
Sanjuanite	Al ₂ PO ₄ SO ₄ OH.9H ₂ O	10.8x	4.13 ₈	5.28 ₄	20- 47
i Sanmartinite	(Zn,Fe,Ca,Mn)WO ₄	2.93x	1.70 ₆	2.47 ₅	11- 128
* Sanmartinite syn	ZnWO ₄	2.93x	2.91 ₉	3.73 ₄	15- 774
i Santafoite	NaMn ₃ (CaSr)(VAs) ₃ O ₁₃ 4H ₂ O	14.9x	7.47 ₅	2.70 ₅	11- 169
i Santanaitite	Pb ₁₁ CrO ₁₆	3.54x	2.61 ₈	2.08 ₅	25- 435
i Santite syn	KB ₂ O ₈ .4H ₂ O	3.36x	3.52 ₉	5.60 ₇	25- 624
i Saponite, 15A	Mg ₃ (SiAl) ₄ O ₁₀ (OH) ₂ .xH ₂ O	14.2x	1.53 ₉	3.67 ₈	13- 86
Saponite, 15A	Ca ₂ Mg ₃ (SiAl) ₄ O ₁₀ OH ₂ .xH ₂ O	15.5x	3.07 ₁	4.57 ₁	29-1491
Saponite, ferroan, 15A	Ca(MgFe) ₃ Si ₄ O ₁₀ (OH) ₂ .xH ₂ O	15.4x	1.54 ₇	7.90 ₅	13- 305
i Saponite, glycerol, 18A	Mg ₃ (Si,Al) ₄ O ₁₀ (OH) ₂ .xH ₂ O	18.8x	1.54 ₇	2.61 ₆	6- 2
i Saponite, glycol, 17A syn	Na ₃ Mg ₃ (SiAl) ₄ O ₁₀ OH ₂ .xH ₂ O	17.0x	3.37 ₈	1.54 ₇	12- 168
* Sapphirine, 2M	(Mg,Al) ₄ (Al,Si) ₃ O ₁₀	2.45x	2.02 ₉	2.99 ₇	21- 549
i Sarabauite	CaSb ₁₀ O ₁₀ S ₆	3.22x	2.82 ₉	3.47 ₈	29- 293
i Sarcosite	(CaNa) ₄ Al ₃ (AlSi) ₃ Si ₄ O ₂₄	2.75x	3.34 ₈	2.85 ₇	17- 754
i Sarcopsite	(Fe,Mn,Mg) ₃ (PO ₄) ₂	3.03x	3.54 ₈	6.06 ₅	18- 642
i Sarkinite	Mn ₂ AsO ₄ (OH)	3.18x	3.04x	3.29 ₉	14- 214
* Sarmientite	Fe ₂ (AsO ₄)(SO ₄)OH.5H ₂ O	9.29x	4.64 ₉	4.26 ₈	22- 342
i Sartorite	PbAs ₂ S ₄	2.75x	3.52 ₉	2.95 ₉	11- 76
i Saryarkite	Ca ₂ Al ₄ (SiO ₄ PO ₄) ₄ OH ₆ .9H ₂ O	3.01x	2.83x	1.85x	16- 712
* Sassolite syn	H ₈ B ₂ O ₆	5.91x	2.84 ₇	2.26 ₇	25- 97
i Satimolite	KNa ₂ Al ₄ (B ₂ O ₃) ₃ Cl ₃ .13H ₂ O	3.20x	9.50 ₉	6.30 ₉	25-1350
o Satpavevite	Al ₁₂ V ₈ O ₃₇ .30H ₂ O	1.93x	2.37 ₉	1.47 ₈	13- 476
* Satterlyite	(Fe,Mg) ₂ (PO ₄)(OH)	2.47x	2.84 ₈	3.52 ₇	29-1425
i Sauconite, 15A	Na ₃ Zn ₃ (SiAl) ₄ O ₁₀ OH ₂ .xH ₂ O	15.5x	4.53 ₅	1.52 ₁	29-1500
i Sauconite, 15A	(ZnMg) ₃ (SiAl) ₄ O ₁₀ OH ₂ .xH ₂ O	15.4x	1.55 ₈	7.90 ₆	8- 243
i Sauconite, 15A	Zn ₃ Si ₄ O ₁₀ (OH) ₂ .xH ₂ O	15.4x	2.67x	1.54x	8- 445
i Sauconite, glycol	(ZnMg) ₃ (SiAl) ₄ O ₁₀ OH ₂ .xH ₂ O	16.6x	8.33x	4.60x	8- 444
i Sazhinite	Na ₃ CeSi ₆ O ₁₅ .6H ₂ O	3.23x	3.37 ₈	5.23 ₈	26-1375
i Sborgite syn	NaB ₅ O ₈ .5H ₂ O	4.60x	3.30 ₈	3.20 ₈	24-1056
* Scacchite syn	MnCl ₂	5.85x	2.59 ₈	3.16 ₅	22- 720
i Scarbroite	Al ₁₄ (CO ₃) ₃ (OH) ₃₆	8.66x	3.72 ₆	5.99 ₅	12- 627
i Scawtite	Ca ₇ (CO ₃)Si ₆ O ₁₈ .2H ₂ O	3.04x	1.90 ₆	3.02 ₅	10- 400
i Schachnerite syn	Ag ₁₁ Hg ₉ .9	2.27x	2.42 ₅	1.27 ₅	27- 618
c Schafarzskite	FeSb ₂ O ₄	3.22x	1.97 ₂	2.72 ₂	25-1181
o Schafarzskite	FeSb ₂ O ₄	1.67x	1.31 ₆	1.16 ₈	25-1406
i Schairerite	Na ₃ SO ₄ (F,Cl)	2.76x	3.52 ₈	3.79 ₇	16- 165
i Schallerite	(MnMgFe) ₈ (SiAs) ₆ O ₁₅ (OH) ₁₀	1.69x	2.67 ₆	1.51 ₆	12- 253
i Schallerite	(MnMgFe) ₈ (SiAs) ₆ O ₁₅ (OH) ₁₀	3.59x	7.37 ₉	1.67 ₉	12- 248
i Schaurteite	Ca ₃ Ge(SO ₄) ₂ (OH) ₁₁ .4H ₂ O	3.34x	4.26 ₇	2.13 ₆	19- 225
* Scheelite	CaWO ₄	3.10x	4.76 ₆	3.07 ₃	7- 210
i Scheelite	CaWO ₄	3.11x	1.60 ₉	1.94 ₈	8- 145
* Schertelite syn	Mg(NH ₄) ₂ H ₂ (PO ₄) ₂ .4H ₂ O	5.94x	2.97 ₅	5.21 ₄	16- 353
i Schirmerite	AgPb ₂ Bi ₃ S ₇	2.04x	3.21 ₉	2.92 ₉	25- 760
i Schmitterite	UO ₂ TeO ₃	3.68x	5.35 ₉	3.10 ₄	25-1001
i Schneiderhoehtite	Fe ₈ As ₁₀ O ₂₃	7.25x	3.58x	2.89x	26-1133
i Schoderite	Al ₂ PO ₄ VO ₄ .8H ₂ O	7.90x	15.8 ₄	11.1 ₂	14- 219
* Schoenfliesite syn	MgSn(OH) ₆	3.87x	4.48 ₄	2.74 ₄	9- 27
Schoepite	UO ₃ .2H ₂ O	7.28x	5.08 ₇	3.44 ₃	13- 407
i Schoepite	UO ₃ .2H ₂ O	7.35x	3.66 ₅	3.24 ₁	13- 241
i Schoepite syn	UO ₃ .2H ₂ O	7.37x	3.59x	3.24 ₈	29-1376
o Schoerl syn	NaFe ₃ Al ₆ (BO ₃) ₃ Si ₆ O ₁₈ (OH) ₄	2.91x	2.58 ₇	1.63 ₇	22- 469
i Scholzite	CaZn ₂ (PO ₄) ₂ .2H ₂ O	8.50x	2.80 ₆	4.27 ₄	13- 445
i Scholzite	CaZn ₂ (PO ₄) ₂ .2H ₂ O	8.65x	2.81 ₆	4.29 ₄	27- 95
i Scholzite syn	CaZn ₂ (PO ₄) ₂ .2H ₂ O	8.57x	2.86 ₇	2.80 ₇	29-1412
i Schoonerite	ZnMnFe ₃ (PO ₄) ₃ (OH) ₂ .9H ₂ O	12.8x	2.77 ₉	8.35 ₇	29- 709
i Schorlomite	Ca ₃ (Fe,Ti) ₂ (Si,Ti) ₃ O ₁₂	1.61x	2.70 ₈	1.68 ₇	7- 390
o Schreibersite	(Fe,Ni) ₃ P	2.19x	2.11 ₇	1.97 ₇	16- 707
i Schreibersite syn	Fe ₃ P	2.20x	1.98x	2.03 ₈	19- 617
i Schroeckingerite syn	NaCa ₃ (UO ₂)(CO ₃) ₃ (SO ₄)F.10H ₂ O	7.26x	4.80 ₈	8.48 ₇	8- 397
i Schubnelite	Fe ₂ (V ₂ O ₈).2H ₂ O	4.47x	3.21x	5.15 ₉	24- 542
* Schuetteite syn	Hg ₃ (SO ₄)O ₂	2.91x	3.34 ₇	2.60 ₆	12- 724
o Schuilingite	Ca ₆ Cu ₂ Pb ₃ (CO ₃) ₈ (OH) ₆ .6H ₂ O	4.78x	3.85 ₈	9.56 ₆	25- 133
* Schultenite syn	PbHAsO ₄	3.38x	3.15 ₇	6.74 ₃	29- 772
i Schwartzembergite syn	Pb ₆ (IO ₃) ₂ Cl ₄ O ₂ (OH) ₂	2.88x	1.63 ₉	2.81 ₈	24- 572
i Scolecite	CaAl ₂ Si ₂ O ₁₀ .3H ₂ O	5.85x	2.88x	6.59 ₈	26-1048
i Scorodite	FeAsO ₄ .2H ₂ O	4.50x	5.65 ₈	3.20 ₈	18- 654
i Scorodite syn	FeAsO ₄ .2H ₂ O	3.18x	3.06 ₈	5.62 ₇	26- 778
i Scorzalite	(Fe,Mg)Al ₂ (PO ₄) ₂ (OH) ₂	3.24x	3.20x	3.14 ₈	6- 304
i Seamanite	Mn ₃ (PO ₄) ₈ (OH) ₆	6.92x	2.84 ₈	3.78 ₇	25- 536
i Searlesite	NaBSi ₂ O ₅ (OH) ₂	8.01x	4.06 ₅	3.48 ₄	6- 37
i Searlesite syn	NaBSi ₂ O ₅ (OH) ₂	3.52x	3.22x	4.04 ₈	29-1181
i Sederholmite	β-Ni _{0.85} Se	2.70x	2.02 ₈	1.81 ₆	18- 888
i Sedovite	U(MoO ₄) ₂	3.19x	11.0 ₉	3.37 ₉	18-1425
i Seeligerite syn	Pb ₃ O ₄ Cl ₃ I	3.21x	1.62 ₉	3.65 ₈	25- 450
i Segelerite	CaMgFe(PO ₄) ₂ (OH).4H ₂ O	2.87x	9.31 ₉	5.34 ₆	26-1061
o Seidozerite	Na ₄ MnTiZr ₂ O ₂ (Si ₂ O ₇)F	2.97x	2.87 ₇	1.83 ₇	13- 576
i Seinojokite	FeSb ₂	2.81x	2.59 ₉	2.03 ₈	29- 129

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* Sekaninaite syn	$\text{Fe}_2\text{Al}_4\text{Si}_5\text{O}_{18}$	3.39x	8.63 ₇	8.55 ₇	17- 525
* Selenium syn	Se	3.00x	3.78 ₆	2.07 ₄	6- 362
i Seligmannite	CuPbAsS_3	2.72x	3.85 ₈	1.75 ₇	11- 92
i Seligmannite syn	CuPbAsS_3	2.71x	2.64 ₇	2.96 ₆	25- 292
* Sellaite syn	MgF_2	3.28x	2.23x	1.71 ₈	6- 290
i Semenovite	$(\text{LaNaCa})_{12}(\text{SiBe})_{20}\text{O}_{48}\text{F}_8\text{H}_2\text{O}$	3.28x	2.84x	2.73x	25- 699
i Semseyite	$\text{Pb}_9\text{Sb}_8\text{S}_{21}$	3.26x	3.81 ₉	2.95 ₉	22-1130
i Senaite	$\text{Pb}(\text{TiFeMnMg})_{24}\text{O}_{38}$	2.89x	3.43 ₉	1.98 ₈	20-1048
* Senarmontite syn	Sb_2O_3	3.22x	1.97 ₄	2.79 ₄	5- 534
i Senegalite	$\text{Al}_2(\text{PO}_4)(\text{OH})_3\cdot\text{H}_2\text{O}$	3.83x	4.09 ₉	2.99 ₉	29- 67
i Sengierite	$\text{Cu}_2(\text{UO}_2)_2\text{V}_2\text{O}_8(\text{OH})_2\cdot 8-10\text{H}_2\text{O}$	9.82x	4.91 ₈	3.74 ₆	8- 398
i Sepiolite	$\text{Mg}_4\text{Si}_6\text{O}_{13}(\text{OH})_2\cdot 6\text{H}_2\text{O}$	12.1x	2.56 ₆	4.31 ₄	13- 595
* Sepiolite	$\text{Mg}_4\text{Si}_6\text{O}_{13}(\text{OH})_2\cdot 6\text{H}_2\text{O}$	3.36x	3.76 ₆	3.20 ₆	26-1226
i Sepiolite	$\text{Mg}_4\text{Si}_6\text{O}_{13}(\text{OH})_2\cdot 6\text{H}_2\text{O}$	12.8x	2.58 ₅	4.41 ₄	29-1492
o Sepiolite, ferrian	$(\text{Mg,Fe})_4\text{Si}_6\text{O}_{13}(\text{OH})_2\cdot 6\text{H}_2\text{O}$	11.9x	3.34 ₆	3.72 ₂	29- 863
i Serandite	$(\text{Mn,Ca})_3\text{NaH}(\text{Si}_3\text{O}_4)$	2.98x	3.16 ₉	2.84 ₇	25- 723
i Serendibite	$\text{Ca}_2(\text{Mg,Al})_6(\text{Si,Al,B})_6\text{O}_{20}$	2.85x	2.60 ₈	2.46 ₈	29- 343
i Serpierite	$\text{Ca}(\text{Cu,Zn})_4(\text{SO}_4)_2(\text{OH})_6\cdot 3\text{H}_2\text{O}$	10.2x	5.09 ₈	3.39 ₈	22- 148
i Shadlunite	$(\text{Cu,Fe})_8(\text{Pb,Cd})\text{S}_9$	3.29x	1.93 ₉	3.84 ₄	25-1426
c Shandite	$\text{Ni}_3\text{Pb}_2\text{S}_2$	2.79x	3.94 ₇	2.28 ₇	26- 494
* Shandite syn	$\text{Ni}_3\text{Pb}_2\text{S}_2$	2.79x	2.78x	3.94 ₉	26-1287
o Sharpite	$(\text{UO}_2)_6(\text{CO}_3)_3(\text{OH})_2\cdot 7\text{H}_2\text{O}$	4.49x	3.93 ₉	2.99 ₆	12- 164
i Shattuckite	$\text{Cu}_5(\text{SiO}_3)_4(\text{OH})_2$	4.42x	4.96 ₆	3.50 ₆	20- 356
i Shcherbakovite	$\text{NaK}(\text{Ba,K})\text{Ti}_2(\text{Si}_2\text{O}_7)_2$	2.91x	3.20 ₈	3.40 ₈	18- 940
i Shcherbakovite	$\text{Na}(\text{K,Ba})(\text{Ti,Nb})_2(\text{Si}_2\text{O}_7)_2$	2.90x	2.64 ₇	1.69 ₇	8- 101
* Shcherbinaite syn	V_2O_5	4.38x	3.40 ₉	2.88 ₇	9- 387
i Sherwoodite	$\text{Ca}_3\text{AlV}_{14}\text{O}_{40}\cdot 28\text{H}_2\text{O}$	12.3x	10.0x	9.30 ₈	11- 191
i Shortite	$\text{Na}_2\text{Ca}_2(\text{CO}_3)_3$	2.56x	5.52 ₇	4.96 ₇	21-1348
o Sibirskite	CaHBO_3	2.93x	2.58x	1.88 ₆	15- 282
o Sicklerite	$\text{Li}(\text{Mn,Fe})\text{PO}_4$	3.01x	2.53x	4.32x	13- 338
* Siderite	FeCO_3	2.80x	1.73 ₄	1.74 ₃	29- 696
i Siderite, manganooan	$(\text{Fe,Mn,Zn})\text{CO}_3$	1.74x	3.62 ₉	2.15 ₆	27- 248
i Sideronatriite	$\text{Na}_2\text{Fe}(\text{SO}_4)_2(\text{OH})\cdot 3\text{H}_2\text{O}$	10.2x	3.01 ₈	3.38 ₆	17- 156
i Siderophyllite	$\text{KFe}_2\text{Al}_3\text{Si}_2\text{O}_{10}(\text{F,OH})_2$	9.99x	2.62x	3.36 ₉	25-1355
* Siderophyllite, 1M syn	$\text{K}_2(\text{Fe}_3\text{Al})\text{Si}_3\text{Al}_3\text{O}_{20}(\text{OH})_4$	10.2x	3.37x	2.64 ₈	26- 909
i Siderotil	$\text{FeSO}_4\cdot 5\text{H}_2\text{O}$	4.89x	3.73 ₈	5.57 ₆	22- 357
* Siegenite syn	NiCo_2S_4	2.83x	1.66 ₈	2.35 ₅	20- 782
i Sigloite	$\text{FeAl}_2(\text{PO}_4)_2(\text{O,OH})\cdot 8\text{H}_2\text{O}$	9.69x	6.46 ₉	4.86 ₉	14- 171
i Silhydrite	$\text{Si}_3\text{O}_6\cdot \text{H}_2\text{O}$	14.5x	3.42 ₈	3.14 ₄	25-1332
i Sillenite	$\gamma\text{-Bi}_2\text{O}_3$	3.22x	2.73 ₇	1.75 ₅	29- 235
i Sillimanite	Al_2SiO_5	3.36x	2.20x	3.41 ₉	10- 369
* Sillimanite	Al_2SiO_5	3.42x	3.37 ₇	2.20 ₆	22- 18
* Silver syn	Ag	2.36x	2.04 ₄	1.23 ₃	4- 783
i Simplotite	$\text{CaV}_4\text{O}_9\cdot 5\text{H}_2\text{O}$	8.51x	2.62 ₃	3.14 ₂	11- 267
i Simpsonite	$\text{Al}_4\text{Ta}_3\text{O}_{13}\text{OH}$	1.64x	1.39x	2.84 ₉	15- 705
i Sinhalite syn	MgAlBO_4	1.63x	1.62x	3.25 ₈	25-1379
i Sinnerite syn	$\text{Cu}_6\text{As}_4\text{S}_9$	3.02x	1.85 ₉	1.58 ₇	25- 264
i Sinoite	Si_2ON_2	4.43x	3.36x	4.66 ₈	17- 545
i Sjogrenite	$\text{Mg}_6\text{Fe}_2\text{CO}_3(\text{OH})_{16}\cdot 4\text{H}_2\text{O}$	7.79x	3.89 ₈	1.86 ₄	14- 281
c Sjogrenite	$\text{Mg}_6\text{Fe}_2\text{CO}_3(\text{OH})_{16}\cdot 4\text{H}_2\text{O}$	7.80x	3.90 ₃	1.87 ₁	24-1091
i Skinnerite syn	Cu_3SbS_3	2.83x	2.63 ₉	2.62 ₉	26-1110
i Sklodowskite	$\text{Mg}(\text{UO}_2)_2(\text{SiO}_3\text{OH})_2\cdot 5\text{H}_2\text{O}$	8.42x	4.19 ₈	3.27 ₇	29- 875
* Skutterudite syn	$\text{CoAs}_3\text{-x}$	2.59x	2.19 ₄	1.84 ₄	10- 328
i Slavikite	$\text{MgFe}_3(\text{SO}_4)_4(\text{OH})_3\cdot 18\text{H}_2\text{O}$	9.04x	11.7 ₈	5.83 ₈	20- 679
i Slavianskite	$\text{CaAl}_2\text{O}_4\cdot 8.5\text{H}_2\text{O}$	2.59x	5.66 ₉	3.57 ₉	29- 281
c Slawsonite	$\text{SrAl}_2\text{Si}_2\text{O}_8$	3.71x	2.92 ₇	3.49 ₆	29-1296
i Smectite-Kaolinite - Kaolinite-Smectite	$\text{Al-Si-OH-H}_2\text{O}$	7.24x	4.31 ₇	3.55 ₇	29-1490
i Smithite syn	AgAsS_2	2.82x	3.21 ₈	2.72 ₆	13- 136
* Smithsonite	ZnCO_3	2.75x	3.55 ₃	1.70 ₅	8- 449
c Smythite	Fe_9S_{11}	11.5x	2.99 ₃	2.57 ₃	25-1182
i Smythite	Fe_9S_{11}	1.73x	1.90 ₈	1.98 ₇	10- 437
o Sobolevskite	PdBi	3.07x	2.26x	2.11 ₉	29- 238
c Sodalite	$\text{Na}_4\text{Si}_3\text{Al}_3\text{O}_{12}\text{Cl}$	3.62x	6.27 ₄	2.09 ₃	20- 495
i Sodalite	$\text{Na}_4\text{Al}_3\text{Si}_3\text{O}_{12}\text{Cl}$	3.63x	6.30 ₈	2.10 ₈	20-1070
o Soddyite	$(\text{UO}_2)_5(\text{SiO}_4)_2(\text{OH})_2\cdot 5\text{H}_2\text{O}$	3.32x	4.48 ₉	6.14 ₈	12- 180
* Sodium alum syn	$\text{NaAl}(\text{SO}_4)_2\cdot 12\text{H}_2\text{O}$	4.31x	2.96 ₄	3.53 ₁	29-1167
i Sodium boltwoodite	$(\text{Na,K})(\text{H}_3\text{O})\text{UO}_2\text{SiO}_4\cdot \text{H}_2\text{O}$	6.71x	2.92x	4.70 ₈	29-1044
o Sodium meta-autunite	$\text{Na}_2(\text{UO}_2)_2(\text{PO}_4)_2\cdot 8\text{H}_2\text{O}$	3.67x	2.68 ₈	1.57 ₈	29-1283
i Sodium Uranospinitite syn	$\text{Na}_2(\text{UO}_2)_2(\text{AsO}_4)_2\cdot 8\text{H}_2\text{O}$	8.42x	3.63 ₉	3.27 ₈	8- 446
i Sodium-zippelite syn	$\text{Na}_4(\text{UO}_2)_6(\text{SO}_4)_3(\text{OH})_{10}\cdot 4\text{H}_2\text{O}$	7.34x	3.66 ₆	3.49 ₅	29-1285
o Soehngeite	$\text{Ga}(\text{OH})_3$	3.74x	1.67 ₇	2.63 ₆	18- 532
o Sogdianite	$(\text{KNa})_2\text{Li}_2\text{Fe}_2\text{ZrSi}_{12}\text{O}_{30}$	3.20x	2.90x	4.09 ₉	21- 501
i Solongaitite	$\text{Ca}_4\text{B}_6\text{O}_{18}(\text{OH})_9\text{Cl}$	2.20x	7.84 ₉	1.73 ₉	26-1051
i Sonolite	$\text{Mn}_9\text{Si}_4\text{O}_{16}(\text{OH})_2$	2.87x	1.74x	2.65 ₇	22- 725
i Sonolite, zincian	$(\text{Mn,Zn})_9\text{Si}_4\text{O}_{16}(\text{OH})_2$	1.77x	2.82 ₇	2.31 ₆	22- 728
i Sonoraite	$\text{FeTeO}_3(\text{OH})\cdot \text{H}_2\text{O}$	10.4x	4.66 ₈	3.11 ₈	21- 430
i Sorbyite	$\text{Pb}_{17}(\text{Sb,As})_{22}\text{S}_{50}$	3.44x	3.38 ₉	4.13 ₆	20- 564
i Sorensenite	$\text{Na}_4\text{SnBe}_2\text{Si}_6\text{O}_{16}(\text{OH})_4$	2.92x	3.41 ₉	2.96 ₉	19-1171
c Sorensenite syn	$\text{Na}_2\text{SnBe}_2(\text{Si}_3\text{O}_9)_2\cdot 2\text{H}_2\text{O}$	6.31x	2.92 ₅	3.42 ₅	29-1178
i Souzalite	$\text{Mg}_3(\text{Al,Fe})_4(\text{PO}_4)_4(\text{OH})_6\cdot 2\text{H}_2\text{O}$	2.69x	3.79 ₉	5.35 ₈	8- 165

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i	Spangolite	$\text{Cu}_6\text{Al}(\text{SO}_4)\text{Cl}(\text{OH})_{12}\cdot 3\text{H}_2\text{O}$	7.10x	3.59 ₈	2.54 ₇	5- 142
i	Spencerite	$\text{Zn}_4(\text{PO}_4)_2(\text{OH})_2\cdot 3\text{H}_2\text{O}$	9.40x	3.50 ₆	2.33 ₃	13- 195
i	Sperryite	PtAs_2	1.80x	1.15 ₇	2.98 ₆	9- 452
i	Spessartine syn	$\text{Mn}_3\text{Al}_2(\text{SiO}_4)_2$	2.60x	1.56 ₄	1.61 ₃	10- 354
*	Sphaerocobaltite syn	CoCO_3	2.74x	3.55 ₄	1.70 ₃	11- 692
i	Sphalerite, mercurian	$((\text{Zn},\text{Hg})\text{S})$	3.15x	1.93 ₉	1.64 ₈	22- 731
*	Sphalerite syn	ZnS	3.12x	1.91 ₅	1.63 ₃	5- 566
*	Spinel, ferrian	$\text{Mg}(\text{Al},\text{Fe})_2\text{O}_4$	2.47x	1.45 ₆	2.05 ₅	21- 540
*	Spinel syn	MgAl_2O_4	2.44x	2.02 ₇	1.43 ₆	21-1152
i	Spiroffite	$\text{Mn}_2\text{Te}_3\text{O}_8$	3.00x	4.05 ₅	4.97 ₄	19-1172
i	Spiroffite, zincian	$(\text{Mn},\text{Zn})_2\text{Te}_3\text{O}_8$	4.98x	3.00x	4.06 ₈	16- 151
i	Spodumene	$\alpha\text{-LiAl}(\text{SiO}_3)_2$	2.93x	2.80 ₈	1.57 ₇	9- 468
*	Spurrite	$\text{Ca}_3(\text{SiO}_4)_2\text{CO}_3$	2.70x	2.64 ₇	3.02 ₇	13- 496
i	Stanfieldite	$\text{Ca}_4(\text{Mg},\text{Fe})_3(\text{PO}_4)_6$	2.82x	3.75 ₈	2.51 ₈	20- 223
i	Stannite	$\text{Cu}_2\text{FeSnS}_4$	3.12x	1.92 ₇	1.64 ₄	11- 62
i	Stannite syn	$\text{Cu}_2(\text{Fe},\text{Sn})_2\text{S}_4$	3.11x	1.91 ₇	1.63 ₅	26- 532
i	Stannoidite	$\text{Cu}_3(\text{Fe},\text{Zn})_2\text{SnS}_8$	3.11x	1.91 ₇	1.62 ₂	22- 237
i	Stannomicalite	$\text{Sn}_2(\text{Ta},\text{Nb})_2\text{O}_7$	3.05x	1.87 ₈	1.59 ₈	23-1441
i	Stannopalladinite syn	Pd_3Sn_2	2.27x	2.20x	1.58 ₇	4- 801
i	Staringite	$\text{Fex}(\text{TaNb})_{2-x}\text{Sn}_{6-3x}\text{O}_{12}$	3.36x	1.76 ₉	2.64 ₈	22- 362
*	Starkeyite syn	$\text{MgSO}_4\cdot 4\text{H}_2\text{O}$	4.46x	5.43 ₉	3.95 ₇	24- 720
i	Staurolite	$(\text{Fe},\text{Mg})_2\text{Al}_9\text{Si}_2\text{O}_{23}(\text{OH})$	3.01x	2.69 _{9x}	2.37 ₉	15- 397
o	Steigerite, chromian	$(\text{Al},\text{Cr})\text{VO}_4\cdot 3\text{H}_2\text{O}$	2.99x	1.77 ₉	2.04 ₈	29- 20
i	Stellerite	$\text{Ca}_4\text{Al}_8\text{Si}_{28}\text{O}_{72}\cdot 28\text{H}_2\text{O}$	9.03x	4.06 ₃	3.03 ₃	25- 124
i	Stellerite-(Na)	$\text{Na}_2(\text{Al}_2\text{Si}_7)\text{O}_{18}\cdot 7\text{H}_2\text{O}$	9.10x	4.05x	3.03 ₈	26-1382
i	Stenuggarite	$\text{CaFe}(\text{AsO}_3)(\text{AsSbO}_3)$	2.98x	1.84 ₅	2.54 ₄	24- 199
i	Stenonite	$\text{Sr}_2\text{AlF}_5\text{CO}_3$	3.39x	2.17x	1.36x	15- 366
i	Stephanite	Ag_3SbS_4	3.08x	2.58 ₉	2.89 ₆	11- 108
*	Stercorite syn	$\text{NaNH}_4\text{HPO}_4\cdot 4\text{H}_2\text{O}$	6.53x	9.93x	4.24 ₆	24-1048
i	Sternbergite	AgFe_2S_3	4.29x	2.79 ₇	3.22 ₅	11- 61
i	Sterryite	$\text{Pb}_{12}(\text{Sb},\text{As})_{10}\text{S}_{27}$	3.26x	3.68 ₉	2.84 ₇	20- 562
i	Stetefeldite	$\text{AgSb}_2(\text{O},\text{OH},\text{H}_2\text{O})_6$	3.02x	2.61 ₇	1.85 ₇	8- 12
i	Stevensite	$\text{CaxMg}_6\text{Si}_8\text{O}_{20}(\text{OH})_4\cdot x\text{H}_2\text{O}$	12.0x	4.54x	2.62 ₉	7- 357
i	Stevensite	$\text{CaxMg}_6\text{Si}_8\text{O}_{20}(\text{OH})_4\cdot x\text{H}_2\text{O}$	15.5x	4.53 ₄	1.52 ₂	25-1498
i	Stewartite	$\text{Mn}_3(\text{PO}_4)_2\cdot 4\text{H}_2\text{O}$	9.98x	3.93 ₄	2.99 ₄	5- 110
i	Stibarsen	(As,Sb)	2.92x	2.01 ₇	2.13 ₆	12- 700
i	Stibiconite	$(\text{SbCa})\text{ySb}_2\text{-x}(\text{O},\text{OH},\text{H}_2\text{O})_6$	2.96x	5.93 ₉	1.81 ₈	10- 388
i	Stibiconite syn	$\text{Sb}_3\text{O}_6(\text{OH})$	2.97x	2.57 ₈	1.82 ₈	16- 938
*	Stibiocolumbite syn	SbNbO_4	3.13x	2.95 ₃	1.74 ₂	16- 907
i	Stibiopalladinite	Pd_3Sb_2	2.27x	2.19x	1.58 ₆	25- 597
*	Stibiotantalite syn	SbTaO_4	3.12x	3.51 ₄	2.95 ₄	16- 908
*	Stibnite syn	Sb_2S_3	2.76x	3.05x	3.56 ₇	6- 474
i	Stichtite	$\text{Mg}_6\text{Cr}_2\text{CO}_3(\text{OH})_{16}\cdot 4\text{H}_2\text{O}$	7.80x	3.91 ₉	2.60 ₄	14- 330
i	Stilbite	$\text{Ca}_{11}(\text{SiAl})_9\text{O}_{18}\cdot 8\text{H}_2\text{O}$	4.06x	4.04x	9.11 ₉	24- 894
c	Stilbite	$\text{Ca}_{11}(\text{SiAl})_9\text{O}_{18}\cdot 8.5\text{H}_2\text{O}$	9.12x	4.06x	4.63 ₄	26- 584
*	Stilbite	$\text{NaCa}_2\text{Al}_3\text{Si}_{13}\text{O}_{36}\cdot 14\text{H}_2\text{O}$	9.04x	4.07x	3.04 ₇	18-1203
*	Stilleite syn	ZnSe	3.27x	2.00 ₇	1.71 ₄	5- 522
i	Stillwellite	$(\text{Ce},\text{La})\text{BSiO}_3$	3.43x	2.96x	2.13 ₈	25-1447
i	Stillwellite-(La) syn	LaBSiO_3	2.94x	4.47 ₉	3.44 ₉	19- 650
i	Stillwellite-(Ce) syn	CeBSiO_3	2.91x	1.86x	3.42 ₉	26- 349
i	Stilpnomelane	$(\text{Fe},\text{Mg})_6(\text{Si},\text{Al})_8\text{O}_{19}(\text{OH})_9$	12.3x	4.16x	2.55x	29- 703
i	Stilpnomelane, ferroan	$\text{Ca}_4\text{Fe}_{47}\text{Si}_{72}\text{O}_{180}(\text{OH})_{26}\cdot x\text{H}_2\text{O}$	12.1x	2.57x	4.04 ₈	25- 174
i	Stilpnomelane, manganoan	$(\text{Fe},\text{Mn})_6\text{Si}_8\text{O}_{20}(\text{OH})_8\cdot 2\text{H}_2\text{O}$	7.26x	3.54 ₇	3.61 ₅	15- 48
i	Stishovite	SiO_2	2.96x	1.53 ₅	1.98 ₄	15- 26
i	Stistaite syn	SbSn	3.06x	2.16 ₈	1.37 ₃	1- 830
i	Stoiberite syn	$\text{Cu}_3\text{V}_2\text{O}_{10}$	2.53x	2.33x	3.04 ₆	27-1135
i	Stokesite	$\text{CaSnSi}_3\text{O}_9\cdot 2\text{H}_2\text{O}$	3.99x	2.89x	7.25 ₈	13- 109
*	Stolzite syn	PbWO_4	3.25x	2.02 ₄	1.66 ₄	19- 708
i	Stottite	$\text{FeGe}(\text{OH})_6$	3.77x	2.66 ₈	1.69 ₇	11- 161
i	Stranskiite	$(\text{Zn},\text{Cu})_3(\text{AsO}_4)_2$	3.13x	2.79 ₈	2.51 ₆	29-1422
i	Strashimirite	$\text{Cu}_8(\text{AsO}_4)_4(\text{OH})_4\cdot 5\text{H}_2\text{O}$	18.7x	2.86x	8.97 ₉	21- 289
i	Stratlingite syn	$\text{Ca}_2\text{Al}_2\text{SiO}_7\cdot 8\text{H}_2\text{O}$	12.5x	4.18 ₇	6.27 ₄	29- 285
i	Strelkinitite	$\text{Na}_2(\text{UO}_2)_2\text{V}_2\text{O}_8\cdot 6\text{H}_2\text{O}$	7.68x	3.95 ₈	4.08 ₆	27- 822
i	Strengite	$\text{FePO}_4\cdot 2\text{H}_2\text{O}$	4.38x	5.50 ₈	3.11 ₈	15- 513
i	Strengite, aluminian syn	$(\text{Fe},\text{Al})\text{PO}_4\cdot 2\text{H}_2\text{O}$	5.46x	4.33x	3.08x	15- 391
i	Stringhamite	$\text{CaCuSiO}_4\cdot 2\text{H}_2\text{O}$	2.77x	3.24 ₄	2.52 ₄	29- 318
c	Stromeyerite	AgCuS	2.62x	3.33 ₄	1.75 ₃	26- 553
i	Stromeyerite	CuAgS	2.61x	3.33 ₈	2.07 ₈	9- 499
i	Stromeyerite syn	$\text{Ag}_{90-93}\text{Cu}_{1-07}\text{S}$	2.62x	3.46 ₆	3.31 ₆	12- 156
*	Strontianite syn	SrCO_3	3.54x	3.45 ₇	2.05 ₅	5- 418
o	Strontioberite	$\text{SrB}_6\text{O}_{13}\cdot 2\text{H}_2\text{O}$	7.20x	4.09 ₉	3.29 ₈	18-1285
i	Strontiodresserite	$\text{SrAl}_2(\text{CO}_3)_2(\text{OH})_4\cdot \text{H}_2\text{O}$	7.93x	4.39 ₈	3.00 ₇	29-1295
i	Strontioginorite	$(\text{Sr},\text{Ca})_2\text{B}_{14}\text{O}_{23}\cdot 8\text{H}_2\text{O}$	7.25x	2.10 ₈	5.40 ₆	13- 137
i	Strontium-apatite syn	$\text{Sr}_3(\text{PO}_4)_3(\text{OH})$	2.91x	2.92 ₉	2.81 ₆	14- 691
i	Strueverite syn	$(\text{Ti},\text{Ta},\text{Fe})\text{O}_2$	3.28x	1.71x	2.52 ₉	17- 543
i	Strunzite	$\text{MnFe}_2(\text{PO}_4)_2(\text{OH})_2\cdot 8\text{H}_2\text{O}$	9.02x	5.32 ₈	4.35 ₆	11- 133
*	Struvite syn	$\text{NH}_4\text{MgPO}_4\cdot 6\text{H}_2\text{O}$	4.26x	5.60 ₆	2.92 ₆	15- 762
*	Studtite syn	$\text{UO}_4\cdot 4\text{H}_2\text{O}$	5.88x	3.39 ₃	3.40 ₂	16- 206
i	Stumpflite	$\text{Pt}(\text{Sb},\text{Bi})$	3.03x	2.19x	2.09 ₈	25-1482
i	Stutzite syn	Ag_3Te_3	2.18x	2.57 ₇	3.05 ₆	18-1187

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						File No.
	Suanite	Mg ₂ B ₂ O ₅	2.56x	2.01 ₆	2.82 ₅	16- 168
	Sudburyite syn	PdSb	2.18x	1.20 ₆	2.98 ₇	26- 888
	Sudoite	Mg ₂ Al ₃ (Si ₃ Al)O ₁₀ (OH) ₈	2.50x	4.52 ₉	14.2 ₈	19- 751
	Sugilite	KNa ₂ (Li,Fe) ₃ Si ₁₂ O ₃₀ ·H ₂ O	4.32x	3.19 ₆	4.06 ₆	29- 824
	Sulfborite	Mg ₆ B ₄ O ₁₀ (SO ₄) ₂ ·9H ₂ O	3.47x	3.09x	2.05x	14- 639
	Sulfur syn	α-S	3.85x	3.21 ₆	3.44 ₄	8- 247
	Sulphohalite	Na ₆ (SO ₄) ₂ ClF	3.56x	2.91 ₆	1.78 ₇	15- 668
	Sulvanite	Cu ₃ VS ₄	5.40x	1.91 ₆	3.12 ₅	11- 104
	Suolunite	Ca ₂ Si ₂ O ₅ (OH) ₂ ·H ₂ O	4.13x	3.17 ₆	2.85 ₇	26- 307
	Surinamite	(Al,Mg,Fe) ₃ (SiAl) ₂ (O,OH) ₈	2.44x	1.99x	1.42 ₈	29- 702
	Sursassite	Mn ₅ Al ₄ Si ₅ O ₂₁ ·3H ₂ O	2.82x	2.88 ₇	2.57 ₇	18-1286
	Sussexite	MnBO ₂ (OH)	6.32x	2.74 ₆	2.48 ₈	13- 599
	Sussexite, magnesian	(Mn _{0.75} ,Mg _{0.25})BO ₃ H	6.29x	2.71 ₇	2.47 ₇	12- 162
	Svabite	Ca ₅ (AsO ₄) ₃ (OH,Cl,F)	2.91x	2.84 ₆	2.82 ₉	19- 215
	Svanbergite	SrAl ₃ (PO ₄)(SO ₄)(OH) ₆	2.98x	2.22x	5.74 ₉	4- 661
	Svanbergite, calcian	(Sr,Ca)Al ₃ PO ₄ SO ₄ (OH) ₆	1.64x	1.63x	2.84 ₈	5- 737
	Svetlozarite	(Ca,K ₂)Al ₂ Si ₁₂ O ₂₈ ·6H ₂ O	4.87x	8.83 ₅	3.44 ₄	29- 990
	Swartzite	CaMg(UO ₂)(CO ₃) ₃ ·12H ₂ O	8.76x	5.50x	7.31 ₉	4- 111
	Swedenborgite	NaBe ₄ SbO ₇	4.20x	2.72 ₉	2.51 ₉	23- 656
	Swinefordite, 13A	Li(AlMg) ₄ Si ₈ O ₂₀ OH ₄ ·xH ₂ O	13.0x	4.53 ₉	1.51 ₉	29- 809
	Switzerite	(Mn,Fe)(PO ₄) ₂ ·4H ₂ O	8.55x	2.59 ₆	7.13 ₄	20- 713
	Sylvanite	AuAgTe ₄	3.05x	2.14 ₅	2.25 ₃	9- 477
	Sylvite syn	KCl	3.15x	2.22 ₆	1.82 ₂	4- 587
	Symplesite	Fe ₃ (AsO ₄) ₂ ·8H ₂ O	6.79x	8.97 ₂	7.50 ₂	8- 172
	Synadelphite	Mn ₆ As ₃ O ₁₁ (OH) ₉ ·2H ₂ O	8.72x	2.64 ₉	9.36 ₇	24- 725
	Synchysite	CaCe(CO ₃) ₂ F	3.55x	2.80x	9.10 ₆	18- 284
	Synchysite-(Y)	CaYF(CO ₃) ₂	1.89x	2.00 ₉	1.83 ₉	14- 570
	Synchysite-(Y)	CaYF(CO ₃) ₂	9.10x	3.53x	2.80x	29- 393
	Syngenite syn	K ₂ Ca(SO ₄) ₂ ·H ₂ O	2.86x	3.17 ₆	5.71 ₆	28- 739
	Szabelyite syn	MgBO ₂ (OH)	2.66x	6.30 ₉	2.21 ₉	19- 755
	Szaibelyite	(Mg,Mn)BO ₃ H	6.20x	2.20 ₈	2.66 ₈	29- 864
	Szmikite syn	MnSO ₄ ·H ₂ O	3.50x	3.14 ₄	4.90 ₄	14- 166
	Szomolnokite syn	FeSO ₄ ·H ₂ O	3.44x	3.12 ₄	2.52 ₄	21- 925
	Taaffeite, 4H	BeMgAl ₄ O ₈	2.43x	2.05 ₈	1.43 ₈	8- 11
	Taaffeite, 9R	BeMgAl ₄ O ₈	2.41x	1.42 ₈	2.05 ₇	20- 161
	Tacharanite	Ca ₁₂ Al ₂ Si ₁₈ O ₃₁ ·18H ₂ O	12.7x	3.05 ₉	2.78 ₈	29- 287
	Tachyhydrite	CaMg ₂ Cl ₆ ·12H ₂ O	2.60x	3.09 ₅	3.80 ₃	1-1092
	Tadzhikite	Ca ₃ La ₂ (TiAlFe) ₈ Si ₄ O ₂₂	2.65x	1.91 ₆	4.97 ₃	24- 137
	Taeniolite, 2M syn	KLiMg ₂ Si ₄ O ₁₀ F ₂	2.60x	1.51x	10.0 ₈	12- 236
	Taeniolite, 1M syn	K _{0.6} (Mg,Li) ₃ Si ₄ O ₁₀ F ₂	3.33x	9.95 ₉	4.98 ₄	15- 237
	Taenite, disordered syn	γ-(Fe,Ni)	2.08x	1.80 ₆	1.27 ₅	23- 297
	Taenite, ordered	γ-(Fe,Ni)	3.34x	2.88 ₈	2.53 ₈	18- 877
	Takanelite	(Mn,Ca)Mn ₄ O ₉ ·3H ₂ O	7.57x	3.77 ₃	2.35 ₂	25- 164
	Takovite	Ni ₆ Al ₂ (OH) ₁₆ (CO ₃ ,OH)·4H ₂ O	7.54x	2.55 ₈	3.77 ₇	15- 87
	Talc	Mg ₃ Si ₄ O ₁₀ (OH) ₂	9.34x	3.12x	4.66 ₉	13- 558
	Talc	Mg ₃ Si ₄ O ₁₀ (OH) ₂	9.35x	1.53 ₆	4.59 ₅	19- 770
	Talc	Mg ₃ Si ₄ O ₁₀ (OH) ₂	9.31x	3.12 ₆	4.55 ₆	29-1493
	Talnakhite	Cu ₉ (Fe,Ni) ₈ S ₁₆	3.06x	1.87 ₉	1.60 ₇	25- 287
	Tamarugite	NaAl(SO ₄) ₂ ·6H ₂ O	4.22x	4.21 ₈	3.65 ₆	19-1186
	Tantaloeschynite-(Y), heated	(Y,Ce,Ca)(Ta,Ti,Nb) ₂ O ₆	3.00x	2.94x	1.58 ₇	26- 1
	Tantalite, stannoon	(Ta,Mn,Nb,Sn)O ₂	1.47x	1.78 ₈	2.95 ₇	16- 147
	Tanteuxenite, heated	(U,Fe,V)(Ti,Sn) ₂ O ₆	3.12x	2.87 ₇	2.67 ₃	8- 293
	Tapialite syn	FeTa ₂ O ₆	3.36x	2.58 ₆	1.75 ₇	23-1124
	Taramellite	BaFeSi ₂ O ₆ (OH)	3.01x	2.58 ₆	3.83 ₅	17- 479
	Taramite, potassian	Na ₂ CaFe ₃ Al ₂ Si ₆ O ₂₂ (OH) ₂	3.15x	8.53 ₇	2.73 ₃	20- 734
	Taranakite	H ₆ K ₃ Al ₃ (PO ₄) ₈ ·18H ₂ O	15.9x	3.82 ₄	7.46 ₃	29- 981
	Tarapacaitite syn	K ₂ CrO ₄	3.08x	2.99 ₈	2.96 ₄	15- 365
	Tarasovite	NaKAl ₈ Si ₁₆ O ₄₀ (OH) ₈ ·2H ₂ O	44.0x	10.6x	21.8 ₇	26- 970
	Tarbuttite	Zn ₂ (PO ₄)OH	2.78x	6.12 ₆	3.70 ₉	12- 200
	Tatarskite	Ca ₈ Mg ₂ S ₂ C ₂ O ₁₄ Cl ₄ (OH) ₄ ·7H ₂ O	2.97x	2.63 ₉	5.34 ₈	15- 785
	Tavorite	LiFe(PO ₄)(OH)	3.05x	3.29 ₆	4.99 ₃	10- 424
	Taylorite	(K,NH ₄) ₂ SO ₄	2.92x	4.21 ₈	3.04 ₇	8- 71
	Tazheranite	(Zr,Ca,Ti)O ₂	2.94x	1.80x	1.54x	22- 540
	Teallite syn	PbSnS ₂	2.86x	3.33 ₂	3.42 ₁	14- 618
	Teallite, zincian	((Sn,Pb,Zn)S)	2.84x	3.41 ₆	1.42 ₅	14- 189
	Teepleite syn	Na ₂ B(OH) ₄ Cl	2.70x	2.02 ₉	2.90 ₈	11- 12
	Teinite	CuTeO ₃ ·2H ₂ O	3.45x	5.45 ₆	3.06 ₈	17- 733
	Telargpalite	(Pd,Ag) ₄ Te	2.42x	2.10 ₅	3.05 ₄	26-1453
	Tellurantimony syn	Sb ₂ Te ₃	3.16x	2.35 ₄	2.13 ₃	15- 874
	Tellurite	TeO ₂	3.28x	3.72x	3.01 ₃	9- 433
	Tellurium syn	Te	3.23x	2.35 ₄	2.23 ₃	4- 554
	Tellurobismuthite	Bi ₂ Te ₃	3.23x	2.36 ₇	2.21 ₅	8- 27
	Tellurobismuthite syn	Bi ₂ Te ₃	3.22x	2.38 ₃	2.19 ₃	15- 863
	Temagamite syn	HgPd ₃ Te ₃	2.91x	2.19 ₉	1.96 ₇	26- 881
	Tengerite	CaY ₃ (OH) ₃ (CO ₃) ₄ ·3H ₂ O	3.86x	4.55 ₇	2.95 ₇	27- 91
	Tengerite	γ-CO ₃ -H ₂ O	3.85x	2.97 ₆	5.93 ₈	27- 498
	Tengerite syn	Y ₂ (CO ₃) ₃ ·3H ₂ O	4.58x	5.64 ₉	3.87 ₈	25-1010
	Tennantite	(Cu,Fe) ₁₂ As ₄ S ₁₃	2.94x	1.80 ₆	1.54 ₅	11- 102
	Tennantite, mercurian	(Cu,Hg) ₁₂ As ₄ S ₁₃	2.97x	1.82 ₆	1.55 ₇	29- 569
	Tenorite syn	CuO	2.52x	2.32x	2.53 ₅	5- 661

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i	Tephroite, magnesian	(Mn,Mg) ₂ SiO ₄	2.58x	2.84 ₉	2.53 ₉	12- 434
*	Tephroite syn	Mn ₂ SiO ₄	2.55x	2.85 ₉	2.59 ₈	19- 788
i	Terlinguaite syn	Hg ₂ OCl	2.51x	5.76 ₈	4.17 ₈	25- 559
*	Teruggite	Ca ₄ MgB ₁₂ As ₂ O ₂₈ ·18H ₂ O	12.1x	2.79 ₃	9.98 ₂	21- 150
*	Teschemacherite syn	(NH ₄)HCO ₃	3.00x	5.34 ₆	3.62 ₆	9- 415
o	Testibiopalladite	Pd(Sb,Bi)Te	2.94x	1.98 ₉	2.68 ₈	29- 961
i	Tetradymite	Bi ₂ Te _{1-6.5} S ₁₋₃₃	3.10x	2.29x	2.11 ₉	19-1330
i	Tetrahedrite, argentian	(Cu,Ag,Fe) ₁₂ Sb ₄ S ₁₃	3.00x	1.86 ₉	1.58 ₆	11- 101
*	Tetrahedrite syn	Cu ₁₂ Sb ₄ S ₁₃	2.98x	1.83 ₄	2.58 ₃	24-1318
*	Tetrakalsilite syn	(K _{·73} Na _{·27})AlSiO ₄	3.07x	3.93 ₆	2.91 ₃	11- 321
*	Tetranatrolite	Na ₂ (Al ₂ Si ₃)O ₁₀ ·H ₂ O	5.90x	2.85x	6.53 ₅	29-1166
i	Tetrawickmanite	MnSn(OH) ₆	3.94x	2.77 ₉	1.76 ₅	25- 553
i	Texasite	Pr ₂ O ₂ (SO ₄)	3.08x	4.05 ₇	3.96 ₆	29-1073
i	Thalcosite syn	Cu ₃ Ti ₂ FeS ₄	2.92x	2.54 ₉	1.72 ₈	29- 580
o	Thalenite	Y ₂ Si ₂ O ₇	3.10x	2.81 ₄	2.75 ₃	19-1450
*	Thaumasite	(Ca ₃ Si(OH) ₆ ·12H ₂ O)SO ₄ CO ₃	9.56x	5.51 ₄	3.41 ₂	25- 128
*	Thenardite syn	Na ₂ SO ₄	2.78x	4.66 ₇	3.18 ₅	5- 631
*	Thermonatrite syn	Na ₂ CO ₃ ·H ₂ O	2.77x	2.75 ₆	2.37 ₆	8- 448
i	Thomsonolite	NaCaAlF ₆ ·H ₂ O	4.02x	1.96 ₉	2.00 ₉	5- 343
c	Thomsonolite	NaCaAlF ₆ ·H ₂ O	3.91x	1.95 ₆	2.92 ₅	22-1360
*	Thomsonite	NaCa ₂ (Al,Si) ₁₀ O ₂₀ ·6H ₂ O	2.86x	4.64 ₉	2.68 ₈	19-1344
i	Thorbastnaesite	Th(Ca,Ce)(CO ₃) ₂ F ₂ ·2-3H ₂ O	2.85x	2.03x	3.54 ₈	18-1362
i	Thoreaulite	SnTa ₂ O ₇	3.10x	3.07x	2.86 ₈	23- 596
*	Thorianite syn	ThO ₂	3.23x	1.69 ₆	1.98 ₆	4- 556
*	Thorite syn	ThSiO ₄	3.55x	4.72 ₉	2.68 ₈	11- 419
i	Thorogummite, uranoan	(Th,U,Ce)(SiO ₄) _{1-x} (OH) _{4x}	3.53x	4.69 ₉	2.65 ₆	8- 440
o	Thorosteenstrupine, heated	(Ca,Th,Mn) ₃ Si ₄ O ₁₁ F ₆ H ₂ O	4.08x	3.25x	2.61 _{1x}	16- 608
*	Thortveitite	(Sc,Y) ₂ Si ₂ O ₇	3.14x	2.97 ₇	5.18 ₆	19-1125
*	Thortveitite syn	Sc ₂ Si ₂ O ₇	3.13x	3.11x	2.93 ₅	20-1037
o	Thorutite, heated	(Th,U,Ca)Ti ₂ O ₆	3.17x	1.73 ₉	1.70 ₉	14- 327
*	Tiemannite syn	HgSe	3.51x	2.15 ₅	1.84 ₃	8- 469
i	Tienshanite	Na ₂ BaMnTiB ₂ Si ₄ O ₂₀	4.19x	3.18 ₉	3.47 ₈	20-1291
i	Tikhonenkovite	SrAl(OH)F ₄ ·H ₂ O	4.89x	3.64 ₉	3.27 ₈	17- 501
i	Tilasite	CaMgAsO ₄ F	3.26x	3.07x	2.69 ₈	2- 485
c	Tilleyite	Ca ₃ Si ₂ O ₇ (CO ₃) ₂	3.01x	3.09 ₉	2.97 ₆	25- 159
*	Tilleyite	Ca ₃ Si ₂ O ₇ (CO ₃) ₂	3.01x	3.09 ₉	1.90 ₇	24- 184
*	Tin syn	Sn	2.92x	2.79 ₉	2.02 ₇	4- 673
i	Tinaksite	NaK ₂ Ca ₂ TiSi ₇ O ₁₉ (OH)	3.03x	3.25 ₉	2.33 ₆	18-1382
*	Tinacalite syn	Na ₂ B ₄ O ₇ ·5H ₂ O	2.92x	4.38 ₉	8.75 ₆	7- 277
i	Tinticite	Fe ₆ (PO ₄) ₄ (OH) ₆ ·7H ₂ O	3.91x	3.28x	3.01 ₉	8- 151
i	Tintinaite	Pb ₅ Sb ₈ S ₁₇	3.40x	3.52 ₈	2.71 ₇	20- 565
i	Tinzenite	(CaMnFe) ₃ Al ₂ BO ₃ (SiO ₃) ₄ OH	2.81x	3.46 ₈	6.30 ₇	6- 444
*	Titanite syn	CaTiSiO ₅	3.24x	3.00 ₃	2.61 ₅	25- 177
i	Titanite, yttrian	(Ca,Ln)TiSiO ₅	2.66x	3.27 ₉	3.02 ₉	22- 538
i	Tlalocite	Cu ₁₆ Te ₃ O ₁₁ (OH) ₂₆ ·27H ₂ O	16.8x	4.20x	8.39 ₈	29- 590
i	Tlapallite	H ₆ Ca ₂ Cu ₃ (SO ₄) ₂ (TeO ₃) ₄ TeO ₆	12.0x	2.99x	3.54 ₆	29- 319
i	Tlapallite, plumbian	H ₆ (CaPb) ₂ Cu ₃ SO ₄ Te ₅ O ₁₈	12.1x	3.02 ₈	2.91 ₅	29- 316
i	Tobermorite, 14A	Ca ₅ Si ₆ O ₁₆ (OH) ₂ ·8H ₂ O	14.0x	3.08 ₇	3.00 ₅	29- 331
*	Tobermorite, 11A syn	Ca ₅ (OH) ₂ Si ₆ O ₁₆ ·4H ₂ O	3.08x	11.3 ₉	2.98 ₇	19-1364
i	Tochilinite	4FeS·3((Mg,Fe)(OH) ₂)	5.42x	10.9 ₈	1.84 ₅	25- 402
o	Tocornalite	(Ag,Hg,I)	2.64x	3.76 ₉	3.61 ₉	25-1326
i	Todorokite	(Mn,Ca)Mn ₂ O ₁₁ ·4H ₂ O	4.74x	9.40 ₈	7.17 ₄	21- 553
i	Todorokite	(Mn,Ca,Ba) ₃ O ₆₋₇ ·1-2H ₂ O	9.65x	4.82 ₇	4.48 ₇	18-1411
i	Todorokite, argentian	(K ₂ Ag ₂ CaBa)Mn ₄ O ₉ ·5H ₂ O	9.43x	3.11 ₅	4.76 ₄	19- 83
i	Tombarthite	Y ₄ (Si ₄ H ₄) ₄ O _{12-x} (OH) _{4x}	6.55x	3.42 ₈	3.23 ₇	21-1314
*	Topaz	Al ₂ SiO ₄ (F,OH) ₂	2.94x	3.20 ₇	3.69 ₆	12- 765
i	Torbernite syn	Cu(UO ₂) ₂ (PO ₄) ₂ ·8-12H ₂ O	10.3x	4.94 ₉	3.58 ₉	8- 360
i	Tornebohmite	(Ce,Ln) ₃ Si ₂ O ₈ (OH)	3.08x	2.82 ₉	2.01 ₆	14- 257
i	Torreyite	(Mg,Mn,Zn) ₇ (SO ₄) ₂ (OH) ₁₂ ·4H ₂ O	13.1x	5.35 ₉	3.85 ₈	5- 74
i	Tosudite	NaxAl ₆ Si ₈ O ₂₀ (OH) ₁₀ ·nH ₂ O	30.4x	15.2 ₈	4.48 ₃	22- 956
i	Tranquillityite	Fe ₆ Zr ₂ Ti ₃ Si ₃ O ₂₄	3.23x	1.78 ₇	2.16 ₆	26-1143
*	Traskite	Ba ₉ Fe ₂ Ti ₂ Si ₁₂ O ₃₆ ·6H ₂ O	2.96x	15.4 ₅	3.51 ₄	18- 171
i	Trechmannite	AgAsS ₂	2.70x	3.15 ₈	1.89 ₈	16- 700
*	Tremolite	Ca ₂ Mg ₅ Si ₈ O ₂₂ (OH) ₂	8.38x	3.12x	2.71 ₉	13- 437
*	Tremolite, sodian syn	Na _{·25} (CaNa) ₂ Mg ₅ Si ₈ O ₂₂ OH ₂	3.13x	2.71 ₆	8.44 ₄	23- 666
i	Trevorite, ferroan	(Ni,Fe)Fe ₂ O ₄	2.52x	1.48 ₆	2.95 ₅	23-1119
*	Trevorite syn	NiFe ₂ O ₄	2.51x	1.48 ₄	2.95 ₃	10- 325
*	Tridymite syn	SiO ₂	4.11x	4.33 ₉	3.82 ₅	18-1170
i	Tridymite syn	SiO ₂	4.27x	4.08 ₉	3.80 ₉	14- 260
i	Trigonite	Pb ₃ MnH(AsO ₃) ₃	2.99x	3.08 ₉	3.24 ₇	23- 330
i	Trialsilite syn	K _{0·7} Na _{0·3} AlSiO ₄	3.08x	3.05x	2.56 ₅	12- 197
i	Trimerite	CaMn ₂ (BeSiO ₄) ₃	2.76x	3.56 ₄	2.23 ₄	17- 477
i	Triphylite, manganooan	Li(Fe,Mn)PO ₄	2.54x	4.29 ₉	3.51 ₉	11- 456
*	Triphylite syn	LiFe(PO ₄)	2.52x	4.27 ₉	3.47 ₈	19- 721
i	Triplite	(Mn,Fe) ₂ PO ₄ (F,OH)	3.05x	2.05 ₆	2.88 ₅	25-1080
i	Triploidite	(Mn,Fe) ₂ PO ₄ (OH)	2.94x	3.10 ₉	3.19 ₈	26-1240
c	Triploidite	Mn _{1·5} Fe _{0·5} PO ₄ (OH)	2.94x	3.11 ₉	3.22 ₇	26-1239
c	Trippkeite syn	CuAs ₂ O ₄	3.16x	6.07 ₉	3.04 ₅	29-1418
i	Tripuhyite	(Fe,Sb)O ₂	3.28x	2.56 ₉	1.72 ₉	7- 349
i	Tritomite-(Y), heated	Y ₃ (Ce,Pr,Th)Ca(Si ₂ B)O ₁₃	2.78x	4.02 ₅	3.13 ₅	14- 138

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i	Tritomite, heated	(LaNd)Ce ₂ Ca ₂ (Si ₂ B)O ₁₃	2.81x	3.44 ₄	1.84 ₄	14- 174
i	Tritomite-(Y), heated	(Ca,La) ₄ (AlSi ₃) ₈ O ₁₆ ·2H ₂ O	2.83x	1.85 ₇	2.73 ₅	27-1063
o	Trogerite, phosphate	(H ₃ O) ₂ (UO ₂) ₂ (PO ₄) ₂ ·6H ₂ O	8.53x	3.66 ₉	1.60 ₉	26- 887
i	Trogerite syn	(H ₃ O) ₂ (UO ₂) ₂ (AsO ₄) ₂ ·6H ₂ O	8.59x	3.79 ₉	3.30 ₈	8- 326
i	Trogtalite, cuprian	(Co,Cu)Se ₂	2.64x	2.42 ₉	1.79 ₈	25- 253
i	Trogtalite syn	CoSe ₂	2.62x	2.39x	1.77 ₉	9- 234
i	Troilite	FeS	2.09x	2.66 ₆	1.72 ₅	11- 151
c	Troilite syn	FeS	2.09x	2.98 ₆	2.66 ₄	24- 80
i	Trolleite	Al ₄ (PO ₄) ₃ (OH) ₃	3.21x	3.10 ₉	3.08 ₅	26-1009
*	Trona	Na ₃ H(CO ₃) ₂ ·2H ₂ O	2.65x	3.07 ₈	4.89 ₆	29-1447
i	Truscottite	Ca ₁₄ Si ₂₄ O ₅₈ (OH) ₈ ·2H ₂ O	3.14x	2.84 ₈	4.21 ₇	29- 382
i	Trustedite	Ni ₃ Se ₄	2.48x	1.76x	3.00 ₈	18- 889
*	Tschermak's molecule syn	CaAl ₂ SiO ₆	2.94x	2.48 ₅	2.86 ₅	19- 207
*	Tschermigite syn	NH ₄ Al(SO ₄) ₂ ·12H ₂ O	4.33x	4.08 ₈	3.27 ₈	7- 22
i	Tsumcorite	FePbZn(AsO ₄) ₂ ·H ₂ O	3.24x	4.66 ₉	2.86 ₉	25- 399
i	Tsumebite	CuPb ₂ (PO ₄)(SO ₄)(OH)	3.24x	2.90 ₇	2.94 ₄	29- 568
i	Tuekete	Ni ₉ SbSbS ₈	2.76x	2.38 ₈	2.28 ₈	29- 927
i	Tugtupite	Na ₄ AlBeSi ₄ O ₁₂ (Cl,S)	3.52x	6.13 ₉	3.57 ₆	19-1182
i	Tuhualite	(Na,K) ₂ Fe ₄ Si ₁₂ O ₃₀ ·H ₂ O	7.16x	2.77 ₉	3.18 ₈	10- 440
i	Tulameenite syn	CuFePt ₂	2.18x	1.32 ₇	1.94 ₆	26- 528
c	Tundrite	NaCe ₂ TiSiO ₇ (OH)·4H ₂ O	13.6x	6.78 ₅	3.46 ₂	25-1188
o	Tundrite	Na ₃ Ce ₄ Ti ₂ C ₃ Si ₂ O ₃₈ OH·2H ₂ O	2.78x	2.72x	3.06 ₈	18-1413
*	Tunellite syn	SrB ₆ O ₁₀ ·4H ₂ O	6.57x	5.14 ₃	6.97 ₃	14- 616
*	Tungstenite, 2H syn	WS ₂	6.18x	2.28 ₄	2.73 ₃	8- 237
i	Tungstite syn	WO ₃ ·H ₂ O	3.49x	5.39 ₈	2.57 ₃	18-1418
i	Tungusite	Ca ₄ Fe ₂ Si ₆ O ₁₅ (OH) ₆	1.82x	4.17 ₈	3.12 ₈	19- 231
i	Tunite	NaHCO ₃ Al ₄ (CO ₃) ₄ (OH) ₁₀	5.62x	2.59 ₉	3.55 ₈	27-1001
i	Turquoise	CuAl ₆ (PO ₄) ₄ (OH) ₈ ·5H ₂ O	3.68x	2.91 ₈	6.17 ₇	6- 214
*	Turquoise, ferrian	Cu(Al,Fe) ₆ (PO ₄) ₄ (OH) ₈ ·5H ₂ O	3.70x	2.93x	3.31 ₇	25- 260
i	Tuscanite	KCa ₆ (Si,Al) ₁₀ O ₂₂ (SO ₄) ₂ ·H ₂ O	11.5x	2.87x	3.07 ₃	29-1035
i	Tvalchrelidzeite	Hg ₁₂ (Sb,As) ₈ S ₁₅	3.49x	2.92x	2.89x	29- 904
o	Tveitite	Ca _{1-x} (Y,La) _x F ₂	3.18x	1.27 ₈	1.95 ₇	29- 364
i	Twinnite	Pb(Sb,As) ₂ S ₄	3.51x	2.34 ₆	2.78 ₇	20- 559
*	Tychite	Na ₆ Mg ₂ (SO ₄)(CO ₃) ₄	2.67x	4.19 ₈	2.46 ₄	22- 479
o	Tyretskite	Ca ₂ B ₃ O ₈ (OH) ₃	2.93x	2.86x	2.14 ₉	26- 2
i	Tyrolite	Ca ₂ Cu ₉ (AsO ₄) ₄ (OH) ₁₀ ·10H ₂ O	28.0x	14.1 ₈	2.98 ₈	11- 348
i	Tyrellite	(Cu,Co,Ni) ₃ Se ₄	1.77x	2.50 ₉	2.89 ₇	8- 1
i	Tuyamunite	Ca(UO ₂) ₂ V ₂ O ₈ ·8H ₂ O	10.2x	5.02 ₉	3.20 ₅	6- 17
o	Uklonskovite	NaMg(OH)(SO ₄) ₂ ·2H ₂ O	3.56x	3.20x	3.02x	16- 405
*	Ulexite	NaCaB ₅ O ₉ ·8H ₂ O	12.2x	7.75 ₈	6.00 ₃	12- 419
i	Ullmannite	NiSbS	2.66x	2.41 ₄	1.78 ₄	2- 954
i	Ulvospinel, ferrian syn	Fe ₃ TiO ₈	2.55x	2.98 ₈	1.50 ₈	25- 417
i	Ulvospinel syn	Fe ₂ TiO ₄	2.57x	3.02 ₈	1.51 ₈	24- 537
*	Umangite syn	Cu ₃ Se ₂	3.55x	1.83 ₈	3.11 ₆	19- 402
o	Umbozerite, heated	Na ₃ Sr ₄ ThSi ₈ O ₂₃ (OH)	3.29x	1.70 ₈	3.38 ₆	26-1384
o	Umohoite, 17A	UO ₂ MoO ₄ ·4H ₂ O	8.42x	5.60x	3.35 ₈	12- 778
i	Umohoite, 12A	UO ₂ MoO ₄ ·xH ₂ O	4.13x	3.20 ₅	3.15 ₄	12- 693
i	Umohoite, 14A	UO ₂ MoO ₄ ·4H ₂ O	7.10x	3.22 ₅	14.1 ₃	11- 375
o	Ungemachite	K ₃ Na ₉ Fe(SO ₄) ₆ (OH) ₃ ·9H ₂ O	3.43x	8.33 ₉	2.72 ₆	20-1326
	Unnamed mineral	Fe-TeO	3.34x	5.74 ₉	1.87 ₈	16- 146
o	Unnamed mineral	Y-Si-F	3.10x	2.67x	1.77x	22-1003
	Unnamed mineral	Ca-U-VO ₄ ·H ₂ O	7.81x	3.76 ₇	3.89 ₆	15- 609
o	Unnamed Mineral	(Na,Ca) ₂ (Nb,Ti) ₂ SiO ₈ ·H ₂ O	3.17x	3.15x	12.4 ₉	25-1317
i	Unnamed Mineral	Y ₂ Si ₂ O ₇	3.22x	3.07 ₇	2.27 ₆	21-1014
	Unnamed mineral	Ba-Ti-Si-O	2.89x	3.28 ₈	2.79 ₈	17- 504
	Unnamed Mineral	Pb-Bi-Cu-(Ag)-S	3.40x	2.06 ₆	3.01 ₄	23-1155
	Unnamed mineral	(Ca,Sr) ₂ U ₇ O ₂₃ ·10H ₂ O	3.11x	3.47 ₈	6.82 ₆	13- 150
o	Unnamed mineral	K-Ca-CO ₃	3.20x	6.11 ₉	2.90 ₈	25- 627
o	Unnamed Mineral	Ca-Mg-U-SO ₄	10.7x	8.35x	6.70 ₈	21- 564
i	Unnamed mineral	Al ₂ (OH) ₆ ·H ₂ O	8.66x	9.81 ₈	4.33 ₈	18- 32
o	Unnamed mineral	Pb ₈ Bi ₆ S ₁₇	3.57x	3.47x	4.16 ₈	22- 650
o	Unnamed mineral	Ca-Mg-Fe-Ti-Al-Si-O	2.98x	2.83x	2.55 ₅	15- 460
	Unnamed mineral	NaFeAl ₂ Si ₄ O ₁₃ ·3H ₂ O	3.00x	6.51 ₉	2.85 ₈	26-1318
	Unnamed Mineral	Bi ₂ Te ₅	3.20x	2.03 ₈	1.61 ₅	22- 117
o	Unnamed mineral	Mn-B-O	5.48x	2.94x	1.80x	18- 785
o	Unnamed mineral	(Ag,Cu) ₁₀ Bi ₂ ·2S ₅	3.48x	2.83 ₉	3.61 ₆	22-1325
	Unnamed mineral	Fe-PO ₄	3.18x	3.46 ₈	3.71 ₆	15- 655
i	Unnamed mineral	2FeS·0.84(CaCO ₃ ·H ₂ O)	11.0x	5.52x	2.84 ₆	25- 412
i	Unnamed Mineral	Mg(OH) ₂ ·1/4(Ni,Fe)OOH	7.75x	3.87 ₆	2.33 ₃	18-1422
	Unnamed Mineral	Cu ₆ Sn ₅	2.96x	2.09x	2.08x	2- 713
o	Unnamed mineral	Fe-Mg-S-H ₂ O	5.45x	10.9 ₆	1.83 ₃	22-1112
o	Unnamed mineral	Fe, Mg, Al, SiO	2.82x	1.75 ₆	1.52 ₆	15- 445
o	Unnamed mineral	K-Ca-Mg-CO ₃	2.98x	3.12 ₈	2.47 ₈	25- 629
o	Unnamed mineral	Pb ₁₁ As ₈ S ₃₁	3.60x	4.23 ₅	2.67 ₅	20- 569
	Unnamed mineral	3UO ₃ ·2SO ₃ ·9H ₂ O	7.31x	3.66 ₉	3.15 ₈	8- 402
	Unnamed Mineral	Pb-Bi-Cu-Ag-S	3.45x	2.04 ₆	3.65 ₃	23-1154
o	Unnamed mineral	Ca-Fe-U-PO ₄ ·H ₂ O	9.47x	3.49 ₆	4.95 ₄	15- 443
	Unnamed Mineral	Be-SiO ₄	4.11x	2.96 ₆	2.50x	15- 57
	Unnamed mineral	Ca-Mg-Pb-Fe-UO ₄ ·xH ₂ O	10.2x	3.57 ₉	5.02 ₅	15- 444
	Unnamed mineral	Pb-U-V-O-H ₂ O	8.16x	2.99x	4.07 ₉	15- 496

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					File No.
o	Unnamed mineral	$\text{Ca-U-Si-O}_4\text{-H}_2\text{O}$	8.61x	6.08 ₈	4.30 ₇ 15- 529
	Unnamed mineral	$\text{Na(Ca,Mn)AlPO}_4(\text{OH})_3$	2.91x	2.18 ₇	1.86 ₆ 13- 587
	Unnamed mineral	$\text{Ca-Pb-U-As-O}_4\text{-H}_2\text{O}$	9.38x	3.49 ₈	4.68 ₆ 15- 530
	Unnamed mineral	$\text{UO}_3\text{-H}_2\text{O}$	7.91x	7.32 ₉	3.28 ₆ 15- 569
o	Unnamed mineral	La-Ce-CO_3	2.64x	1.87x	2.90 ₈ 25- 700
o	Unnamed mineral	$\text{Pb}_2\text{Cl}_3(\text{O,OH,CO}_2)_2$	2.33x	2.11 ₉	1.44 ₉ 25-1396
o	Unnamed Mineral	$\text{Mn}_4\text{Fe}_5\text{Si}_{12}\text{O}_{30}(\text{OH})_6\cdot 8\text{H}_2\text{O}$	13.0x	2.66 ₉	2.78 ₈ 25-1371
	Unnamed mineral	$\text{BaO-UO}_2\text{-As}_2\text{O}_5$	9.01x	4.49 ₈	3.01 ₇ 29- 209
o	Unnamed mineral	(Pd,Pt) ₂ (Sb)	2.98x	2.24 ₉	2.16 ₈ 29- 134
	Unnamed mineral	$\text{CaO-As}_2\text{O}_5$	7.86x	4.32 ₇	3.11 ₇ 29- 294
	Unnamed mineral	$\text{CuO-As}_2\text{O}_5\text{-SO}_2$	10.7x	2.59x	4.57 ₈ 29- 532
	Unnamed mineral	$(\text{Ni,Fe,Cu})_{0.75}\text{Ir}_{0.25}\text{S}$	3.33x	1.75x	2.98 ₈ 29- 555
o	Unnamed mineral	$\text{UO}_3\text{-SiO}_2\text{-H}_2\text{O}$	7.30x	11.6 ₉	6.19 ₉ 27- 938
i	Unnamed mineral	$\text{Sr}_3\text{TiSi}_4\text{O}_{12}(\text{OH})\cdot 2\text{H}_2\text{O}$	4.62x	3.83 ₉	2.60 ₉ 26-1388
o	Unnamed mineral	Ca-Y-CO_3	6.94x	4.85x	3.31 ₉ 28- 256
o	Unnamed mineral	$\text{Pb}_8\text{Bi}_{10}(\text{S,Se})_{23}$	2.96x	2.06 ₉	3.49 ₇ 29- 764
	Unnamed mineral	$\text{CaO-As}_2\text{O}_5\text{-SO}_2$	8.59x	5.34 ₈	3.59 ₈ 29- 297
	Unnamed mineral	$\text{CaO-MgO-As}_2\text{O}_5\text{-H}_2\text{O}$	7.28x	6.50x	4.02 ₈ 29- 345
	Unnamed mineral	$\text{CaO-As}_2\text{O}_5\text{-H}_2\text{O}$	10.8x	2.84 ₉	3.17 ₇ 29- 295
	Unnamed mineral	$\text{Na(BaSr)}_4\text{FeTi}_2\text{Si}_8\text{O}_{25}\text{OH}_3$	2.80x	2.61 ₄	4.47 ₄ 29-1173
o	Unnamed mineral	U-Nb-O	4.17x	7.02 ₈	3.04 ₈ 29-1373
i	Unnamed mineral	$\text{Pd}_2(\text{As,Bi})$	2.33x	2.16 ₇	1.91 ₆ 29- 963
	Unnamed mineral	$\text{Mg}_3(\text{CO}_3)_4(\text{OH})_2\cdot 8\text{H}_2\text{O}$	5.89x	33.2 ₆	2.93 ₆ 29- 857
i	Uralborite	$\text{CaB}_2\text{O}_4\cdot 2\text{H}_2\text{O}$	7.61x	2.13x	2.97 ₉ 14- 272
i	Uralolite	$\text{CaBe}_3(\text{OH})_2(\text{PO}_4)_2\cdot 4\text{H}_2\text{O}$	3.56x	3.04 ₈	3.20 ₇ 16- 718
	Uramphite syn	$(\text{NH}_4)(\text{UO}_2)(\text{PO}_4)\cdot 3\text{H}_2\text{O}$	9.02x	3.80x	3.26 ₉ 29- 121
	Uraninite	UO_2	3.09x	2.69 ₅	1.90 ₅ 13- 225
	Uraninite syn	U_4O_9	3.14x	1.92 ₅	1.64 ₅ 20-1344
*	Uraninite syn	UO_2	3.16x	1.93 ₅	2.74 ₅ 5- 550
	Uraninite syn	$\text{UO}_2\cdot 23$	1.64x	3.12 ₉	1.92 ₉ 9- 206
	Uraninite syn	U_3O_7	3.14x	2.72 ₃	1.92 ₃ 15- 4
i	Uranocircite, 20A	$\text{Ba}(\text{UO}_2)_2(\text{PO}_4)_2\cdot 10\text{H}_2\text{O}$	5.10x	2.04x	10.1 ₆ 18- 199
i	Uranophane	$\text{Ca}(\text{H}_3\text{O})_2(\text{UO}_2)_2(\text{SiO}_4)_2\cdot 3\text{H}_2\text{O}$	7.88x	3.94 ₉	2.99 ₈ 8- 442
	Uranopilite	$(\text{UO}_2)_6\text{SO}_4(\text{OH})_{10}\cdot 12\text{H}_2\text{O}$	6.97x	4.21 ₉	5.44 ₄ 8- 131
	Uranopilite	$(\text{UO}_2)_4\text{SO}_4(\text{OH})_{10}\cdot 12\text{H}_2\text{O}$	7.12x	9.18 ₈	4.28 ₈ 8- 443
	Uranosphaerite	$\text{Bi}_3\text{U}_2\text{O}_9\cdot 3\text{H}_2\text{O}$	3.16x	1.83 ₈	3.87 ₇ 8- 321
	Uranospinit syn	$\text{Ca}(\text{UO}_2\text{AsO}_4)_2\cdot 10\text{H}_2\text{O}$	3.62x	3.41 ₉	10.0 ₈ 29- 390
	Uranpyrochlore	$(\text{U,Ca,Pb})(\text{Nb,Ta})_2\text{O}_7$	3.01x	1.84 ₈	1.58 ₈ 29-1411
*	Urea syn	$\text{CO}(\text{NH}_3)_2$	4.01x	3.05 ₃	3.62 ₃ 28-2015
i	Ureyite syn	$\text{NaCrSi}_2\text{O}_6$	2.96x	2.87 ₇	2.51 ₄ 26-1484
c	Uricite syn	$\text{C}_4(\text{NH})_2\text{O}_2\text{C}(\text{NH})_2\text{O}$	3.09x	3.18 ₆	4.91 ₅ 28-2016
	Urvantsevite	$\text{Pd}(\text{Bi,Pb})_2$	2.64x	2.37 ₉	1.42 ₇ 29- 232
	Usovite	$\text{Ba}_2\text{Mg}(\text{AlF}_6)_2$	3.41x	2.04 ₇	1.75 ₇ 19-1391
i	Ussingite	$\text{Na}_2\text{AlSi}_3\text{O}_8\text{OH}$	2.95x	2.69x	6.35 ₉ 14- 426
c	Ussingite	$\text{Na}_2\text{AlSi}_3\text{O}_8(\text{OH})$	2.99x	6.50 ₇	4.25 ₃ 28-1037
	Ustarasite	$\text{Pb}(\text{Bi,Sb})_6\text{S}_{10}$	3.53x	1.48x	3.08 ₇ 25- 429
	Uvanite	$\text{U}_2\text{V}_6\text{O}_{21}\cdot 15\text{H}_2\text{O}$	2.94x	1.71 ₉	2.24 ₈ 8- 322
	Uvanite	$\text{U}_2\text{V}_6\text{O}_{21}\cdot 15\text{H}_2\text{O}$	2.94x	4.60 ₇	5.79 ₅ 8- 323
*	Uvarovite syn	$\text{Ca}_3\text{Cr}_2(\text{SiO}_4)_3$	2.68x	3.00 ₇	1.60 ₆ 11- 696
i	Uvite	$\text{CaMg}_3\text{Al}_6(\text{BO}_3)_3\text{Si}_6\text{O}_{18}(\text{OH})_4$	2.97x	2.58 ₉	2.04 ₈ 29- 342
	Vaesite	NiS_2	2.83x	1.71 ₈	1.09 ₇ 11- 99
*	Valentinite syn	Sb_2O_3	3.14x	3.12 ₈	3.49 ₃ 11- 689
i	Valleriite	$\text{CuFeS}_2\cdot 1.53((\text{Mg,Al})(\text{OH})_2)$	11.4x	5.71x	3.27 ₆ 29- 554
*	Vanadinite	$\text{Pb}_3(\text{VO}_4)_3\text{Cl}$	2.99x	3.07 ₉	3.38 ₆ 13- 585
*	Vanadinite syn	$\text{Pb}_3(\text{VO}_4)_3\text{Cl}$	2.99x	3.07 ₉	3.00 ₉ 19- 684
i	Vanalite	$\text{NaAl}_6\text{V}_{10}\text{O}_{38}\cdot 30\text{H}_2\text{O}$	10.7x	8.52 ₄	7.90 ₄ 25- 782
	Vandenbrandeite	$\text{CuUO}_4\cdot 2\text{H}_2\text{O}$	4.44x	5.26 ₉	2.97 ₈ 8- 325
	Vandenbrandeite	$\text{CuUO}_4\cdot 2\text{H}_2\text{O}$	4.29x	2.92 ₈	5.06 ₄ 4- 340
i	Vandendriesscheite	$\text{PbU}_7\text{O}_{22}\cdot 12\text{H}_2\text{O}$	7.25x	3.61x	3.17 ₈ 13- 117
*	Vanthoffite syn	$\text{Na}_6\text{Mg}(\text{SO}_4)_4$	3.43x	4.03x	3.11 ₈ 29-1240
i	Vanuralite	$\text{Al}(\text{UO}_2)_2\text{V}_2\text{O}_8(\text{OH})\cdot 11\text{H}_2\text{O}$	12.0x	5.98 ₉	3.98 ₈ 23- 769
i	Vanuranylite	$(\text{H}_3\text{O})_2(\text{UO}_2)_2\text{V}_2\text{O}_8\cdot 3.6\text{H}_2\text{O}$	5.00x	3.23x	2.11 ₈ 19-1417
o	Variscite	$\text{AlPO}_4\cdot 2\text{H}_2\text{O}$	4.29x	5.39 ₆	4.83 ₅ 25- 18
i	Variscite	$\text{AlPO}_4\cdot 2\text{H}_2\text{O}$	3.04x	5.36 ₇	4.26 ₇ 25- 19
i	Varlamoffite	$(\text{Sn,Fe})(\text{O,OH})_2$	1.75x	3.33 ₈	2.60 ₉ 14- 567
	Varulite	$(\text{Na}_2,\text{Ca})(\text{Mn,Fe})_2(\text{PO}_4)_2$	2.74x	3.50 ₄	2.56 ₄ 6- 487
	Vashegyite	$\text{Al}_4(\text{PO}_4)_3(\text{OH})_3\cdot 11\text{H}_2\text{O}$	9.80x	9.20x	7.24x 29- 68
i	Vaterite syn	CaCO_3	3.30x	2.73x	1.82 ₇ 25- 127
c	Vaterite syn	CaCO_3	3.30x	2.74 ₆	3.58 ₅ 24- 30
i	Vauquelinite	$\text{Pb}_2\text{Cu}(\text{CrO}_4)\text{PO}_4(\text{OH})$	3.31x	4.73 ₇	2.89 ₆ 13- 302
c	Vauquelinite	$\text{Pb}_2\text{Cu}(\text{CrO}_4)(\text{PO}_4)(\text{OH})$	3.29x	4.73 ₈	2.89 ₅ 27- 270
i	Vauxite	$\text{FeAl}_2(\text{PO}_4)_2(\text{OH})_2\cdot 7\text{H}_2\text{O}$	5.45x	5.97 ₈	4.94 ₆ 14- 210
i	Vayrynenite	$\text{Be}(\text{Mn,Fe})\text{PO}_4(\text{OH})$	3.45x	7.25 ₉	2.89 ₉ 12- 707
i	Veatchite	$\text{Sr}_2\text{B}_{11}\text{O}_{16}(\text{OH})_3\cdot \text{H}_2\text{O}$	10.5x	3.32 ₄	2.60 ₃ 12- 712
i	Veenite	$\text{Pb}_2(\text{Sb,As})_2\text{S}_5$	3.81x	3.03 ₉	3.42 ₈ 20- 560
	Velikite	$(\text{Cu,Hg})_{5.5}\text{Sn}_2\text{S}_2$	3.17x	1.94 ₈	1.67 ₄ 29- 570
i	Vermiculite	$\text{Mg}_3(\text{SiAl})_2\text{O}_{10}\text{OH}_2\cdot 4.5\text{H}_2\text{O}$	14.2x	1.53 ₇	4.57 ₆ 16- 613
	Vermiculite-hydrobiotite	$\text{KMg}_9(\text{SiAl})_6\text{O}_{20}\text{OH}_4\cdot x\text{H}_2\text{O}$	15.0x	12.5 ₈	4.50 ₆ 13- 465
i	Vernadite	$\text{Mn}(\text{OH})_4$	2.39x	3.11 ₆	2.15 ₆ 15- 604
*	Verplanckite	$\text{Ba}_2\text{MnSi}_2\text{O}_6(\text{O,OH})_2\cdot 3\text{H}_2\text{O}$	3.95x	2.97 ₇	2.74 ₇ 18- 175

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	Vertumnite	$\text{Ca}_4\text{Al}_4\text{Si}_4\text{O}_6(\text{OH})_{24}\cdot 3\text{H}_2\text{O}$	4.19x	12.5 ₇	6.28 ₇	29- 291
	Vesignite	$\text{BaCu}_2(\text{VO}_4)_2(\text{OH})_2$	3.21x	2.72 ₈	2.29 ₈	12- 519
i	Vesuvianite, ferrian	$\text{Ca}_{10}\text{Fe}_2\text{Al}_4\text{Si}_9\text{O}_{34}(\text{OH})_4$	2.76x	2.60 ₈	1.63 ₈	22- 533
*	Vesuvianite syn	$\text{Ca}_{19}\text{Mg}_4\text{Al}_{10}\text{Si}_{17}\text{O}_{88}(\text{OH})_8$	2.76x	2.60 ₈	2.46 ₃	27- 81
*	Veszelyite	$(\text{Cu},\text{Zn})_3(\text{PO}_4)_3(\text{OH})_3\cdot 2\text{H}_2\text{O}$	3.64x	6.96 ₄	4.49 ₃	12- 525
*	Villamaninite	$(\text{Cu},\text{Fe},\text{Ni})\text{S}_2$	2.85x	1.72 ₄	2.55 ₃	29- 556
*	Villiaumite syn	NaF	2.32x	1.64 ₆	1.34 ₂	4- 793
i	Vimsite	$\text{CaB}_2\text{O}_7(\text{OH})_4$	3.48x	2.22 ₈	3.72 ₇	21- 134
o	Vincentite	Pd_3As	4.18x	3.95 _x	3.24 _x	26-1452
o	Vinogradovite	$\text{Na}_4\text{Ti}_4\text{Si}_8\text{O}_{22}\cdot x\text{H}_2\text{O}$	3.28x	3.11 ₉	6.20 ₈	25- 879
i	Violarite	$(\text{Fe},\text{Ni})_3\text{S}_4$	2.85x	1.67 ₈	1.82 ₆	11- 95
i	Viseite	$\text{NaCa}_3\text{Si}_3\text{P}_3\text{O}_{32}(\text{OH})_{14}\cdot 16\text{H}_2\text{O}$	2.92x	1.74 ₆	3.46 ₅	5- 616
i	Vivianite syn	$\text{Fe}_3(\text{PO}_4)_2\cdot 8\text{H}_2\text{O}$	6.80x	2.97 ₇	2.71 ₇	3- 70
i	Vladimirite	$\text{Ca}_3\text{H}_2(\text{AsO}_4)_4\cdot 5\text{H}_2\text{O}$	2.79x	4.15 ₈	4.00 ₈	17- 162
*	Vlasovite	$\text{Na}_2\text{ZrSi}_4\text{O}_{11}$	5.04x	3.66 ₆	3.23 ₄	19-1264
i	Volborthite	$\text{Cu}_3(\text{VO}_4)_2\cdot 3\text{H}_2\text{O}$	7.16x	2.64 ₇	2.57 ₇	26-1119
i	Volkovskite	$\text{CaB}_2\text{O}_7(\text{OH})_2\cdot 2\text{H}_2\text{O}$	8.10x	3.28 ₈	2.63 ₈	18-1460
i	Voltaite	$\text{K}_2\text{Fe}_3\text{Fe}_4(\text{SO}_4)_{12}\cdot 18\text{H}_2\text{O}$	3.40x	3.54 ₈	5.55 ₆	20-1388
o	Volynskite	AgBiTe_2	3.09x	3.21 ₈	3.21 ₃	18-1173
*	Vonsenite	$\text{Fe}_3(\text{BO}_3)_2\text{O}_2$	2.58x	5.15 ₃	1.54 ₂	25- 395
i	Vrbaitite	$\text{Ti}_4\text{Hg}_3\text{Sb}_2\text{As}_8\text{S}_{20}$	4.04x	3.33 ₈	2.57 ₈	20-1264
*	Vuagnatite	$\text{CaAl}(\text{SiO}_4)(\text{OH})$	2.52x	3.00 _x	2.64 ₉	29- 289
	Vulcanite syn	CuTe	2.02x	2.87 ₈	3.50 ₇	22- 252
i	Vuonnemite	$\text{Na}_{10}\text{TiNb}_2(\text{PO}_4)_3\text{Si}_4\text{O}_{17}$	2.87x	7.14 ₆	3.58 ₆	26- 972
i	Vysotskite	$(\text{Pd},\text{Ni})\text{S}$	2.91x	2.86 _x	2.61 ₈	15- 151
c	Vysotskite syn	PdS	2.64x	2.88 ₉	2.89 ₇	25-1234
i	Wadeite	$\text{K}_2\text{ZrSi}_3\text{O}_9$	2.85x	3.85 ₈	5.97 ₆	10- 461
i	Wagnerite, ferroan	$(\text{Mg},\text{Fe},\text{Mn},\text{Ca})_2\text{PO}_4\text{F}$	2.99x	2.84 _x	3.15 ₉	25- 4
i	Wagnerite syn	$\text{Mg}_2\text{PO}_4\text{F}$	2.97x	3.11 ₇	3.28 ₅	24- 704
i	Wairakite	$\text{CaAl}_2(\text{SiO}_3)_4\cdot 2\text{H}_2\text{O}$	3.39x	5.57 ₈	3.42 ₆	7- 326
i	Wairakite syn	$\text{Ca}(\text{Al}_2\text{Si}_4\text{O}_{12})\cdot 2\text{H}_2\text{O}$	3.41x	5.57 ₉	2.90 ₈	11- 156
i	Wakabayashilite	$(\text{As},\text{Sb})_{11}\text{S}_{18}$	6.28x	3.49 ₈	4.78 ₇	29-1406
*	Wakefieldite syn	YVO_4	3.56x	2.67 ₅	1.83 ₃	17- 341
i	Wallisite	$\text{CuPbTiAs}_2\text{S}_5$	3.34x	2.83 ₅	2.88 ₃	25- 294
c	Wallisite	$\text{PbTiCuAs}_2\text{S}_5$	3.31x	2.86 ₈	3.33 ₈	27- 279
	Walpurgite	$\text{Bi}_4(\text{UO}_2)(\text{AsO}_4)_2\text{O}_4\cdot 3\text{H}_2\text{O}$	3.11x	3.25 ₅	3.05 ₅	8- 324
*	Walstromite	$\text{BaCa}_2\text{Si}_3\text{O}_9$	2.99x	6.58 ₂	2.70 ₂	18- 162
i	Wardite	$\text{NaAl}_3(\text{PO}_4)_3(\text{OH})_4\cdot 2\text{H}_2\text{O}$	4.77x	4.73 _x	3.09 ₈	13- 403
i	Wardite	$\text{NaAl}_3(\text{PO}_4)_3(\text{OH})_4\cdot 2\text{H}_2\text{O}$	4.74x	2.99 ₇	2.59 ₇	11- 330
	Wardsmithite	$\text{Ca}_5\text{MgB}_2\text{O}_{12}\cdot 30\text{H}_2\text{O}$	13.5x	12.3 ₆	6.12 ₆	23- 120
	Warwickite	$\text{Mg}_3\text{Ti}(\text{BO}_3)_2\text{O}_2$	2.59x	2.97 ₃	6.66 ₃	19- 775
i	Warwickite	$(\text{Mg},\text{Fe})_3\text{Ti}(\text{BO}_3)_2\text{O}_2$	2.58x	6.68 ₄	4.25 ₄	12- 171
*	Wavellite	$\text{Al}_3(\text{PO}_4)_2(\text{OH})_3\cdot 5\text{H}_2\text{O}$	8.67x	8.42 _x	3.22 ₆	25- 20
i	Weberite	$\text{Na}_2\text{MgAlF}_7$	1.78x	2.96 ₉	2.90 ₉	5- 733
*	Weddellite syn	$\text{CaC}_2\text{O}_4\cdot 2\text{H}_2\text{O}$	6.18x	2.78 ₇	4.42 ₃	17- 541
	Weeksite	$\text{K}_2(\text{UO}_2)_2(\text{Si}_2\text{O}_5)_3\cdot 4\text{H}_2\text{O}$	7.11x	5.57 ₉	8.98 ₈	12- 462
*	Wegscheiderite	$\text{Na}_3(\text{CO}_3)(\text{HCO}_3)_3$	2.95x	3.68 ₅	2.64 ₆	15- 653
	Weibullite	$\text{Pb}_3\text{Bi}_8\text{Se}_7\text{S}_{11}$	3.08x	3.87 ₈	2.05 ₈	29- 760
i	Weibullite	$\text{Pb}_3\text{Bi}_8\text{Se}_7\text{S}_{11}$	3.85x	3.08 ₈	3.27 ₈	29- 761
i	Weilerite	$\text{BaAl}_3(\text{AsO}_4)(\text{SO}_4)(\text{OH})_6$	3.01x	5.80 ₈	3.54 ₇	19-1419
	Weillite syn	CaHA_5O_4	3.43x	3.05 _x	2.79 ₇	16- 710
o	Weissbergite syn	TiSbS_2	2.97x	3.65 ₁	3.58 ₁	29-1331
i	Weissite syn	$\text{Cu}_2\text{-xTe}$	2.09x	3.61 ₇	2.01 ₇	10- 421
i	Welinite	$\text{Mn}_3\text{Si}_{10}\cdot 6\text{W}_{9.4}\text{O}_7$	1.78x	3.10 ₈	2.33 ₈	20-1389
	Wellsite	$(\text{Ba},\text{Ca},\text{K}_2)\text{Al}_2\text{Si}_2\text{O}_{10}\cdot 3\text{H}_2\text{O}$	3.15x	4.07 ₈	2.69 ₈	12- 541
i	Weloganite	$\text{Na}_2\text{Sr}_2\text{Zr}(\text{CO}_3)_6\cdot 3\text{H}_2\text{O}$	2.82x	4.36 ₈	2.59 ₇	27- 790
i	Welshite	$\text{Ca}_2\text{Mg}_4\text{FeSbBe}_2\text{Si}_4\text{O}_{20}$	2.53x	7.32 ₇	2.91 ₇	29-1407
c	Wenkite	$\text{Ca}_3\text{Ba}_4\text{Al}_4\text{Si}_{11}\text{S}_3\text{O}_{53}(\text{OH})_4$	3.46x	3.15 ₈	2.68 ₇	27- 31
i	Wenkite	$\text{Ca}_3\text{Ba}_4\text{Si}_{11}\text{Al}_6\text{S}_3\text{O}_{52}(\text{OH})_4$	3.46x	2.69 ₉	3.38 ₈	19-1418
i	Wernlandite	$\text{Ca}_2\text{Mg}_{14}\text{Al}_4\text{CO}_3(\text{OH})_{42}\cdot 29\text{H}_2\text{O}$	7.98x	11.2 ₇	4.63 ₅	25- 153
*	Westerveldite syn	FeAs	2.59x	2.00 ₆	2.64 ₆	12- 799
i	Wherryite	$\text{Pb}_4\text{Cu}(\text{CO}_3)(\text{SO}_4)_2(\text{OH},\text{Cl})_2\text{O}$	3.16x	2.75 ₅	3.06 ₅	23- 218
*	Whewellite syn	$\text{CaC}_2\text{O}_4\cdot \text{H}_2\text{O}$	5.93x	3.65 ₇	2.97 ₅	20- 231
i	Whitlockite	$(\text{Ca},\text{Mg})_3(\text{PO}_4)_2$	2.84x	2.57 ₈	1.70 ₈	13- 404
*	Whitlockite syn	$\text{Ca}_3(\text{PO}_4)_2$	2.88x	2.61 ₇	3.21 ₆	9- 169
i	Whitmoreite	$\text{FeFe}_2(\text{PO}_4)_2(\text{OH})_2\cdot 4\text{H}_2\text{O}$	10.1x	7.01 ₇	4.98 ₇	26-1138
i	Wickenburgite	$\text{CaPb}_3\text{Al}_2\text{Si}_{10}\text{O}_{24}(\text{OH})_6$	10.1x	3.26 ₈	3.93 ₆	21- 148
i	Wickmanite	$\text{MnSn}(\text{OH})_6$	3.93x	1.76 ₇	2.78 ₆	20- 727
	Widenmannite	$\text{Pb}_2\text{UO}_2(\text{CO}_3)_3$	4.16x	2.34 _x	3.19 ₈	27- 281
i	Wightmanite	$\text{Mg}_9\text{B}_2\text{O}_{12}\cdot 8\text{H}_2\text{O}$	10.7x	9.07 _x	3.03 ₃	14- 640
i	Wilkeite	$\text{Ca}_2(\text{P},\text{Si},\text{S})_3\text{O}_{12}(\text{Cl},\text{OH},\text{F})$	2.75x	2.84 _x	3.45 ₄	25- 167
i	Wilkmanite	Ni_2Se_4	2.70x	2.02 _x	1.80 _x	18- 890
*	Willemite syn	Zn_2SiO_4	2.63x	2.83 _x	3.49 ₈	8- 492
i	Willemseite	$(\text{Ni},\text{Mg})_3\text{Si}_4\text{O}_{10}(\text{OH})_2$	9.40x	3.12 ₃	2.50 ₃	22- 711
i	Willyamite	$(\text{Co},\text{Ni})\text{SbS}$	2.62x	2.39 ₇	1.77 ₆	26-1106
o	Wiserite	$\text{Mn}_4\text{B}_2\text{O}_7\cdot 2\text{H}_2\text{O}$	14.2x	2.53 ₈	6.40 ₆	13- 593
*	Witherite syn	BaCO_3	3.72x	3.67 ₅	2.15 ₃	5- 378
i	Wittichenite	Cu_3BiS_3	2.85x	3.08 ₈	4.55 ₄	9- 488
o	Wittite, argentinean	$(\text{Pb},\text{Ag})_3(\text{Bi},\text{As})_6(\text{S},\text{Se})_{14}$	3.38x	2.90 ₉	2.90 ₈	25- 460
i	Wodginite	$(\text{Ta},\text{Mn},\text{Sn})\text{O}_2$	3.00x	3.67 ₇	2.95 ₇	29- 901

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		$\text{NaCa}_2(\text{Zr,Nb})\text{Si}_2\text{O}_8(\text{O}(\text{OH}))$	2.84x	3.00 ₇	3.25 ₆	10- 462
i	Wohlerite	$(\text{Fe,Mn})_2(\text{PO}_4)(\text{OH})$	2.93x	3.09 ₆	3.18 ₈	5- 612
i	Wolfeite	$\text{FeMn}(\text{WO}_4)_2$	2.95x	2.48 ₆	4.76 ₅	11- 591
i	Wolframite	$\text{FeMn}(\text{WO}_4)_2$	2.97x	2.95 ₆	4.78 ₆	12- 727
*	Wolframite syn	$(\text{Nb,W,Fe,Mn})\text{O}_2$	2.96x	3.64 ₇	1.72 ₇	22-1114
i	Wolframoixiolite					
		$(\text{Ca,Fe})\text{SiO}_3$	3.28x	3.48 ₇	2.28 ₇	27-1056
	Wollastonite, ferroan, 1Tr	CaSiO_3	2.98x	3.32 ₃	3.52 ₂	27- 88
c	Wollastonite, 2M	CaSiO_3	2.97x	3.83 ₈	3.52 ₈	10- 489
i	Wollastonite, 2M	CaSiO_3	3.31x	3.83 ₉	3.51 ₈	27-1064
	Wollastonite, 1Tr	CaSiO_3	2.98x	3.31 ₈	3.51 ₇	29- 372
	Wollastonite, 1Tr syn					
		$(\text{Pb,Ca})\text{U}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$	3.09x	3.47 ₆	6.93 ₆	12- 159
	Wolsendorffite	$\text{CaAl}_3(\text{PO}_4)(\text{SO}_4)(\text{OH})_6$	2.94x	1.89 ₉	2.19 ₉	4- 670
i	Woodhouseite	$(\text{Zn,Mn})_2\text{Mn}_2\text{O}_{12} \cdot 4\text{H}_2\text{O}$	4.66x	2.66 ₆	2.48 ₆	16- 338
	Woodruffite	$\text{Cu}_4\text{Al}_2(\text{SO}_4)(\text{OH})_{12} \cdot 2-4\text{H}_2\text{O}$	9.10x	2.58 ₆	1.50 ₆	29- 529
o	Woodwardite	$\text{Cu}_4(\text{SO}_4)(\text{OH})_6 \cdot 2\text{H}_2\text{O}$	7.15x	3.58 ₇	2.63 ₄	27-1133
i	Wroewolfeite					
		FeO	2.15x	2.49 ₆	1.52 ₆	6- 615
*	Wuestite syn	PbMoO_4	3.24x	2.02 ₃	2.72 ₃	8- 475
*	Wulfenite syn	ZnS	3.12x	1.90 ₅	1.63 ₄	12- 688
i	Wurtzite 10H and 8H	ZnS	3.31x	3.13 ₃	2.93 ₆	5- 492
*	Wurtzite, 2H syn	$\text{Fe}_{0.26}\text{Mn}_{0.31}\text{Zn}_{0.43}\text{S}$	3.35x	1.94 ₇	2.96 ₃	11- 513
i	Wurtzite, manganoean, 2H					
		ZnS	2.93x	3.31x	1.91 ₇	10- 434
	Wurtzite syn	$\text{Ca-U-CO}_3\text{-H}_2\text{O}$	8.46x	3.47 ₂	4.22 ₂	12- 636
o	Wyartite, 17A	$\text{Ca}_3\text{U}_7\text{C}_2\text{O}_{22}(\text{OH})_{16} \cdot 4\text{H}_2\text{O}$	10.3x	5.19 ₃	3.47 ₁	12- 635
i	Wyartite, 21A	$\text{Na}_2\text{Fe}_2\text{Al}(\text{PO}_4)_3$	2.69x	2.67x	6.15 ₆	26-1378
i	Wyllieite	$\text{Ni}_3(\text{AsO}_4)_2$	2.53x	3.46 ₈	2.75 ₈	18- 874
i	Xanthiosite					
		Ag_3AsS_3	2.97x	3.01 ₆	2.82 ₇	21-1455
c	Xanthaconite	Ag_3AsS_3	3.00x	2.82 ₆	3.14 ₃	8- 134
i	Xanthaconite	$\text{Ca}_2\text{Fe}(\text{PO}_4)_2(\text{OH}) \cdot \text{H}_2\text{O}$	3.05x	2.73 ₉	3.22 ₈	5- 571
	Xanthoxenite	$(\text{Y,Er})\text{PO}_4$	3.45x	2.56 ₅	1.77 ₅	11- 254
*	Xenotime	YPO_4	3.44x	2.56 ₆	1.76 ₅	9- 377
*	Xenotime syn					
		$\text{Fe}(\text{UO}_2)_4(\text{PO}_4)_2(\text{SO}_4)_2 \cdot 22\text{H}_2\text{O}$	11.1x	3.74 ₈	3.29 ₆	29-1401
	Xiangjiangite	$(\text{Ir,Cu})\text{S}$	1.21x	3.02 ₆	1.77 ₇	29- 551
o	Xingzhongite	$\text{Cu}_3\text{TeO}_4(\text{OH})_4$	4.63x	2.67 ₆	3.44 ₄	29- 579
i	Xocomecatelite	$\text{Ca}_6(\text{Si}_6\text{O}_{17})(\text{OH})_2$	3.09x	2.83 ₅	2.70 ₄	29- 379
i	Xenotile	$\text{Ca}_6\text{Si}_6\text{O}_{17}(\text{OH})_2$	3.08x	3.24 ₅	2.82 ₅	23- 125
*	Xenotile syn					
		$\text{Na}_3\text{Mg}_4\text{Al}_6(\text{SiAl})_{24}\text{O}_{60}$	3.23x	5.06 ₇	3.73 ₅	21-1365
i	Yagiite	$\text{Ca}_3\text{Al}_2\text{F}_{10}(\text{OH})_2 \cdot \text{H}_2\text{O}$	3.45x	2.23 ₆	3.66 ₇	18- 272
i	Yaroslavit	$\text{KFe}(\text{SO}_4)_2$	2.97x	7.85 ₉	3.87 ₈	12- 632
i	Yavapaiite	$\text{KFe}(\text{SO}_4)_2$	2.99x	7.87 ₇	3.89 ₇	29-1438
*	Yavapaiite syn	$\text{Pb}_6\text{CrO}_6\text{Cl}_6 \cdot 2\text{H}_2\text{O}$	2.95x	2.62 ₇	4.51 ₇	27- 269
i	Yedlinite					
		PtIn	1.19x	1.99 ₇	2.29 ₅	29- 675
o	Yixunite	$(\text{Mg,Al})_8\text{Si}_4(\text{O,OH})_{20}$	3.50x	3.03 ₈	2.61 ₆	12- 625
	Yoderite	$\text{Mn}_2\text{Si}_6\text{O}_{20}(\text{OH})_2(\text{OH}_2)_4 \cdot 4-5\text{H}_2\text{O}$	10.5x	3.30 ₆	2.62 ₃	27- 312
	Yofortierite	$\text{Ba}_2\text{Mn}_2\text{TiO}(\text{Si}_2\text{O}_7)\text{PO}_4(\text{OH})$	2.91x	4.85 ₅	3.21 ₅	19-1421
*	Yoshimuraite	$(\text{Y,Th})_2\text{Si}_2\text{O}_7$	3.01x	2.91 ₅	3.31 ₄	24-1427
	Yttrialite, heated					
		$\text{Y}_{1.95}\text{Th}_{0.05}\text{Si}_2\text{O}_7$	3.05x	2.63 ₄	1.74 ₄	24-1428
	Yttrialite syn	$\text{YNb}_2(\text{O,OH})_7$	2.98x	1.70 ₉	1.49 ₇	25-1015
i	Yttrropyrochlore, heated	$(\text{Fe,Y,U,Ca})(\text{Nb,Ta,Zr})\text{O}_4$	2.95x	1.81 ₉	1.55 ₉	11- 116
o	Yttrrotantalite, heated	$\text{YW}_2\text{O}_7(\text{OH})_4$	4.69x	3.26x	2.03 ₆	26-1396
i	Yttrrotungsit	$\text{CaAl}_2\text{Si}_6\text{O}_{16} \cdot 4\text{H}_2\text{O}$	3.06x	5.82 ₉	4.68 ₈	18- 274
i	Yugawaralite					
		$\text{Al}_{12}(\text{SO}_4)_3(\text{OH})_{26}$	15.8x	3.29 ₁	4.51 ₁	29- 88
o	Zaherite, 16A	$\text{Al}_{12}(\text{SO}_4)_3(\text{OH})_{26} \cdot 20\text{H}_2\text{O}$	17.9x	3.22 ₁	4.61 ₁	29- 90
	Zaherite, 18A	$\text{Bi}(\text{Fe,Al})_3(\text{PO}_4)_2(\text{OH})_6$	2.95x	5.71x	3.50 ₄	29- 226
	Zairite	$\text{Cu}_3\text{Al}_4(\text{PO}_4)_3(\text{OH})_6 \cdot 4\text{H}_2\text{O}$	7.62x	11.6x	5.75 ₈	25- 261
i	Zapatallite	$\text{Ni}_3(\text{CO}_3)(\text{OH})_4 \cdot 4\text{H}_2\text{O}$	5.07x	8.93 ₇	2.45 ₇	16- 164
o	Zaratite					
		BiOF	2.65x	1.87x	1.62x	22- 114
i	Zavaritskite syn	$\text{LiNaZrSi}_6\text{O}_{15}$	4.85x	3.15 ₉	7.19 ₈	29- 835
i	Zektzerite	$\text{CaUO}_2(\text{CO}_3)_2 \cdot 5\text{H}_2\text{O}$	9.66x	4.85 ₅	5.59 ₄	19- 257
*	Zellerite	$(\text{NaH})_2(\text{ZnFe})_2(\text{TeO}_3)_3 \cdot n\text{H}_2\text{O}$	8.15x	2.78 ₉	4.07 ₆	29-1220
i	Zemannite	$\text{Ca}_4(\text{Si}_3\text{O}_8)(\text{OH})_2\text{F}_2 \cdot 2\text{H}_2\text{O}$	12.0x	3.03 ₈	6.09 ₆	12- 201
o	Zeophyllite					
		$\text{Cu}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 12\text{H}_2\text{O}$	10.3x	3.59x	5.20 ₇	17- 150
i	Zeunerite	$\text{Cu}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 16\text{H}_2\text{O}$	10.7x	3.59 ₉	5.04 ₈	4- 90
i	Zeunerite syn	Zn	2.09x	2.47 ₅	2.31 ₄	4- 831
*	Zinc syn	ZnO	2.48x	2.82 ₇	2.60 ₆	5- 664
*	Zincite syn	$\text{Zn}_2(\text{UO}_2)_6(\text{SO}_4)_3(\text{OH})_{10} \cdot 16\text{H}_2\text{O}$	7.08x	3.54 ₅	9.62 ₄	29-1395
	Zinc-zippeite syn					
		PbSb_2S_4	3.45x	2.80 ₄	1.99 ₃	7- 334
i	Zinkenite, Zinckenite	ZnSO_4	3.54x	4.17 ₉	2.65 ₈	8- 491
*	Zinkosite syn	$\text{K}(\text{Li,Fe})_2\text{Si}_4\text{O}_{10}(\text{OH})_2$	3.29x	9.80 ₈	1.98 ₆	13- 227
*	Zinnwaldite, 1M	$(\text{UO}_2)_3(\text{SO}_4)_2(\text{OH})_2 \cdot 8\text{H}_2\text{O}$	7.02x	3.48 ₆	3.13 ₉	8- 138
i	Zippeite	$(\text{UO}_2)_3(\text{SO}_4)_2(\text{OH})_2 \cdot 8\text{H}_2\text{O}$	7.02x	3.48 ₉	3.13 ₉	8- 138
i	Zippeite					
		$\text{K}_4(\text{UO}_2)_6(\text{SO}_4)_3(\text{OH})_{10} \cdot 4\text{H}_2\text{O}$	7.06x	3.50 ₉	3.12 ₈	29-1062
	Zippeite	ZrSiO_4	3.30x	4.43 ₅	2.52 ₅	6- 266
*	Zircon	$\text{K}_4(\text{Mn,Fe})_6\text{Zr}_2\text{Si}_6\text{O}_{22}(\text{OH})_6$	3.50x	2.80 ₇	2.66 ₅	25- 856
	Zircophyllite	$\text{Zr}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$	4.32x	2.98 ₉	6.49 ₅	8- 495
*	Zircosulfate syn	$(\text{Ca,Th,Ce,Zr})(\text{Ti,Nb})_2\text{O}_7$	2.98x	1.82 ₅	2.53 ₃	15- 12
	Zirkelite, heated					
		$\text{Na}_6\text{CaZrSi}_6\text{O}_{18}$	1.84x	2.64 ₉	2.57 ₈	27- 670
i	Zirsinalite	$\text{Ca}_2\text{Al}_2\text{Si}_2\text{O}_{12}(\text{OH})$	2.69x	2.87 ₇	4.03 ₅	13- 562
*	Zoisite syn	$\text{Na}_3\text{Ti}_2(\text{Si}_2\text{O}_7)_2 \cdot 3\text{H}_2\text{O}$	6.90x	11.6 ₈	3.38 ₈	25-1298
i	Zorite	$\text{Al}_{12}\text{Si}_2\text{O}_{20}(\text{OH,F})_{18}\text{Cl}$	8.07x	4.21x	2.68 ₉	14- 698
i	Zunyite		9.60x	4.78 ₅	3.19 ₃	19-1500
*	Zusmanite					

MINERAL NAMES

File No.

Zvyagintsevite syn
Zwieselite
Zykaite

PbPd_3
 $(\text{Fe}, \text{Mn}, \text{Co})_2\text{PO}_4(\text{F}, \text{OH})$
 $\text{Fe}_4(\text{AsO}_4)_3(\text{SO}_4)(\text{OH}) \cdot 15\text{H}_2\text{O}$

2.32x
2.87x
10.4x

1.22₉
3.05₈
10.6₇

2.01₈
3.26₇
6.92₄

20- 827
21- 811
29- 695