Supplementary Information

Table S1. Structural information parameters for mineral structures (based upon structure reports stored in the Inorganic Crystal Structure Database (ICSD, version 1.8.1, 2011-2))

Mineral name	Chemical formula	Sp. gr.	v	I_G	$I_{G,total}$	$I_{G,n}$	Year	ICSD code
Abenakiite-(Ce)	$Na_{26}Ce_6(SO_2)(SiO_3)_6(PO_4)_6(CO_3)_6$	*R*3	117	4.335	507.147	0.631	1994	79159
Abernathyite	$K(H_3O)((UO_2)(AsO_4))(H_2O)_3$	*P*4/*ncc*	48	2.252	108.078	0.403	2004	54842
Abhurite	$Sn_{21}Cl_{16}(OH)_{14}O_6$	*R*32	71	3.909	277.534	0.636	1981	15581
Abswurmbachite	$CuMn_6(SiO_4)O_8$	$I4_1/acd$	80	2.822	225.754	0.446	1991	71823
Acanthite	Ag_2S	$P2_1/c$	12	1.585	19.020	0.442	1967	30445
Acetamide	$((CH_3)CO(NH_2))$	*R*3*c*	54	3.170	171.176	0.551	1971	56913
$P6_3/m$	FeSe	$P6_3/m$	4	1.000	4.000	0.500	1992	57294
Acmite	$FeNa(Si_2O_6)$	*C*2/*c*	20	2.522	50.439	0.584	2004	159539
Acmite (Li-exchanged)	$LiFe(Si_2O_6)$	$P2_1/c$	40	3.322	132.877	0.624	1998	50536
Actinolite	$Ca_2(Mg,Fe)_5Si_8O_{22})(OH)_2$	*C*2/*m*	41	3.699	151.660	0.690	1987	68319
Acuminite	$Sr(AlF_4)(OH)(H_2O)$	*C*2/*c*	32	3.000	96.000	0.600	1991	33830
Adamite	$Zn_2(AsO_4)(OH)$	*Pnnm*	32	2.750	88.000	0.550	1977	34340
Adamsite-(Y)	$NaY(CO_3)_2(H_2O)_6$	*P*-1	64	5.000	320.000	0.833	2000	90832
Admontite	$MgO(B_2O_3)_3(H_2O)_7$	$P2_1/c$	152	5.274	801.685	0.728	1976	34190
Adranosite	$(NH_4)_4NaAl_2(SO_4)_4Cl(OH)_2$	$I4_1/acd$	160	3.572	571.508	0.488	2010	169963
Aegirine	$NaFe(Si_2O_6)$	*C*2/*c*	20	2.522	50.439	0.584	2007	157733
Aegirine-Li	$LiFe(Si_2O_6)$	$P2_1/c$	40	3.322	132.877	0.624	2001	158579

Aenigmatite	$Na_4Fe_{10}Ti_2(Si_{12}O_{40})$	*P*-1	68	5.117	347.947	0.841	2008	161815
Aerinite	$Ca_4(Al_{10}(Si_{12}O_{36}(OH)_{12}H)(CO_3)(H_2O)_{12}$	*P*3*c*1	96	4.099	393.510	0.622	2004	55435
Aerinite	$Ca_4(Al_{10}(Si_{12}O_{36}(OH)_{12}H)(CO_3)(H_2O)_{12}$	*P*3*c*1	84	3.921	329.328	0.613	2009	162745
Aerugite	$Ni_{8.5}(AsO_4)_2(AsO_6)O_2$	*R*3-*m*	28	2.761	77.322	0.574	1989	65630
Pnma	$CeTiTaO_6$	*Pnma*	36	2.503	90.117	0.484	2010	174455
Afghanite	$Na_6Ca_2(Al_6Si_6O_{24})(SO_4)(CO_3)_{0.5}Cl_{1.5}(H_2O)$	*P*63*mc*	210	4.853	1019.189	0.629	1993	39683
Afghanite	$(Na_{17.28}K_{4.72}Ca_2)Ca_8(Si_{24}Al_{24}O_{96})(SO_4)_6Cl_{5.8}F_{0.18}$	*P*31*c*	220	5.355	1178.077	0.688	1997	66847
Afwillite	$Ca_3(HSiO_4)_2(H_2O)_2$	*Cc*	42	4.392	184.477	0.815	1976	18
Afwillite	$Ca_{12}(H_2O)_8(SiO_4)_4(SiO_2(OH)_2)_4$	*P*1	84	6.392	536.955	1.000	2009	173859
Agardite-(Ce)	$Ce_{0.7}H_9Cu_6(AsO_4)_3(OH)_6(H_2O)_3$	$P6_3/m$	68	3.020	205.340	0.496	1983	31255
Agardite-(Y) (Ca-rich)	$YCu_6(AsO_4)_3(OH)_6(H_2O)_3$	$P6_3/m$	68	3.020	205.340	0.496	1985	36476
Agrellite	$NaCa_{1.905}Eu_{0.095}F(Si_4O_{10})$	*P*-1	72	5.170	372.235	0.838	1979	100376
Agrellite (Sr-bearing)	$Na_{0.945}(Ca_{1.73}Sr_{0.15}Na_{0.12})(Si_4O_{10})F$	*P*-1	72	5.170	372.235	0.838	1998	87540
Agrinierite	$K_2(Ca_{0.65}Sr_{0.35})((UO_2)_3O_3(OH)_2)_2(H_2O)_5$	*F*2*mm*	72	4.587	330.235	0.743	2000	89723
Ahlfeldite	$Ni(SeO_3)(H_2O)_2$	$P2_1/n$	44	3.459	152.215	0.634	1990	69220
Aikinite	$BiCuPbS_3$	*Pnma*	24	2.585	62.039	0.564	1976	616595
Aiolosite	$Na_2(Na_{2.14}Bi_{0.86})(SO_4)_3(Cl_{0.81}(H_2O)_{0.19})$	$P6_3/m$	44	2.799	123.156	0.513	2010	166960
Ajoite	$K_2NaCu_{20}Al_3Si_{29}O_{76}(OH)_{16}(H_2O)_8$	*P*-1	149	6.226	927.656	0.862	2002	96726
Akaganeite	$(Fe_{7.6}Ni_{0.4})O_{6.44}(OH)_{9.56}Cl_{1.16}$	I12/M1	21	3.249	68.239	0.740	2003	96830
Akatoreite	$Mn_9Al_2Si_8O_{24}(OH)_8$	*P*-1	59	4.900	289.076	0.833	1993	41243
Akdalaite	$(Al_2O_3)_5(H_2O)$	P63MC	26	2.603	67.682	0.554	1969	23651
Akermanite	$Ca_2Mg(Si_2O_7)$	P4-21M	24	2.418	58.039	0.527	1995	39924
$P2_1/n$	$Ca_2Mg(Si_2O_7)$	$P2_1/n$	48	3.585	172.078	0.642	2009	163287

Akhtenskite	MnO_2	*P*6$_3$/*mmc*	4	1.000	4.000	0.500	1951	76430
Akrochordite	$Mn_5(AsO_4)_2(OH)_4(H_2O)_4$	P21/C	46	3.567	164.084	0.646	1989	202938
Aksaite	$MgB_6O_7(OH)_6(H_2O)_2$	PBCA	176	4.459	784.860	0.598	1971	15212
Aktashite	$Cu_6Hg_3As_4S_{12}$	R3H	25	3.122	78.057	0.672	2009	169803
Alabandite	MnS	FM3-M	2	1.000	2.000	1.000	1993	41331
Alacranite	As_4S_4	*C*2/*c*	16	2.250	36.000	0.563	2001	95290
Alacranite	As_8S_9	P12/C1	34	3.264	110.974	0.642	2003	98792
Alamosite	$Pb(SiO_3)$	P12/N1	60	3.974	238.413	0.673	2004	250220
Alarsite	$Al(AsO_4)$	P3121	18	1.918	34.529	0.460	1991	33832
Albite	$Na(AlSi_3O_8)$	C1-	26	3.700	96.211	0.787	1999	87654
Alexandrite	$(Al_{1.989}Cr_{0.011})BeO_4$	PNMA	28	2.522	70.606	0.525	2007	158391
Alflarsenite	$Na_{0.5}(Na_{0.45}Sr_{0.055})Ca_2Be_3(Si_4O_{13})(OH)(H_2O)_2$	P1211	102	5.672	578.587	0.850	2010	169969
Alforsite	$(Ba_{4.99}Eu_{0.01})(PO_4)_3Cl$	*P*6$_3$/*m*	42	2.653	111.419	0.492	1996	83255
Alfredstelznerite	$Ca_4(H_2O)_4(B_4O_4(OH)_6)_4(H_2O)_{15}$	PCA21	232	5.858	1359.052	0.745	2010	167005
Algodonite	$(Cu_8As)_{0.22}$	*P*6$_3$/*mmc*	2	0.000	0.000	0.000	1960	610305
Alinite	$Ca_{11}(AlSi_3O_{18})Cl$	I4-2M	34	2.852	96.974	0.561	1979	166621
Alite	$Ca_3O(SiO_4)$	P-1	160	6.347	1015.508	0.867	2008	162744
Allabogdanite	$(Fe_{1.5}Ni_{0.5})P$	PNMA	12	1.585	19.020	0.442	2002	94577
Allactite	$Mn_7(AsO_4)_2(OH)_8$	P121/A1	50	3.684	184.193	0.653	1968	24428
Allanite-(La)	$(Ca(Ca_{0.311}La_{0.274}Ce_{0.196}Nd_{0.111}Pr_{0.101}Th_{0.006}Y_{0.001}))((Al_{0.871}Fe_{0.129})Al(Fe_{0.88}Mg_{0.12}))(SiO_4)(Si_2O_7)O(OH)$	P121/M1	44	4.187	184.215	0.767	2006	156645
Allanpringite	$(Fe_{0.917}Al_{0.083})_3(PO_4)_2(OH)_3(H_2O)_5$	P121/N1	84	4.392	368.955	0.687	2006	156820
Allargentum	$Ag_{0.86}Sb_{0.14}$	*P*6$_3$/*mmc*	2	0.000	0.000	0.000	1970	40349

Alleghanyite	$Mn_5((OH)_2(SiO_4)_2)$	P21/C	34	3.146	106.974	0.618	1970	14253
Allochalcoselite	$Cu_6PbO_2(SeO_3)_2Cl_5$	C12/M1	44	4.232	186.215	0.775	2006	156654
Alloclasite	CoAsS	P1211	6	1.585	9.510	0.613	1976	36395
Alloriite	$((Na_{3.54}Ca_{0.46})(H_2O)_{3.54}(OH)_{0.46})((Na_{16.85}K_6Ca_{1.15})((SO_4)_4((CO_3)_{0.62}(SO_3)_{1.4})))(Ca_4((OH)_{1.66}Cl_{0.34}))(Si_{26}Al_2{}_2O_{96})$	P31C	218	5.372	1171.151	0.692	2007	160895
Alluaivite	$(Ti_{2.31}Nb_{0.69})(Ca_{4.5}Mn_{1.5})(Na_{18.78}Sr_{0.3}Ce_{0.09})K_{0.165}(Si_3O_9)_2(Si_{10}O_{28})_2Cl_{0.8}(H_2O)_{1.53}$	R3-MH	264	5.201	1373.064	0.647	1990	39342
Alluaudite	$Na_{2.5}Li_{0.1}Ca_{0.5}Mn_{4.5}Mg_{0.2}Fe_{7.9}(PO_4)_{12}$	C12/C1	38	3.406	129.421	0.649	1971	15241
Almandine	$(Fe_{2.59}Mg_{0.27}Ca_{0.13}Mn_{0.009})(Al_2Si_3O_{12})$	IA3-D	80	1.595	127.637	0.252	1971	27364
Almandine	$Fe_3(Al_2Si_3O_{12})$	IA3-D	80	1.595	127.637	0.252	2002	96737
Almarudite	$K_{0.928}Na_{0.2}(Mn_{1.058}Fe_{0.62}Mg_{0.322})(Be_{2.214}Al_{0.786})(Si_2O_5)_6$	P6/MCC	100	2.577	257.739	0.388	2004	151560
Alpersite	$(Mg_{.683}Cu_{.317})SO_4(H_2O)_7$	P21/C	52	3.777	196.423	0.663	2006	172625
Altaite	PbTe	FM3-M	2	1.000	2.000	1.000	1983	38295
Althausite	$Mg_4(PO_4)_2(OH)_{0.37}F_{0.25}O_{0.19}$	PNMA	68	3.735	253.947	0.613	1980	100184
Althupite	$AlTh(UO_2)((UO_2)_3O(OH)(PO_4)_2)_2(OH)_3(H_2O)_{15}$	P-1	130	6.038	784.908	0.860	1987	202166
Altisite	$Na_3K_6(Ti_2Al_2Si_8O_{26})Cl_3$	C12/M1	50	3.964	198.193	0.702	1995	79851
Alum-(Na)	$NaAl(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	1970	14306
Aluminite	$Al_2(OH)_4(H_2O)_3(SO_4)(H_2O)_4$	P21/C	144	5.170	744.469	0.721	1978	2234
Alumino-celadonite	$(K_{0.75}Ca_{0.01}Na_{0.03})(Al_{1.39}Mg_{0.51}Fe_{0.13})((Si_{3.71}Al_{0.29})O_{10}(OH)_2)$	C12/M1	19	2.669	50.711	0.628	2010	166968
Aluminocerite-(Ce)	$(Ce_{3.21}Ca_{2.31}La_{1.35}Nd_{1.14}Pr_{0.42}Y_{0.27}Sm_{0.15}Gd_{0.06}Dy_{0.03}Yb_{0.009})(Al_{0.60}Fe_{0.39})(SiO_4)_3(SiO_3(OH))_4((OH)_{2.48}O_{0.52})$	R3CH	92	4.076	375.031	0.625	2009	162954

Aluminocoquimbite	$Pb_{48}Bi_{56}(S_{124.8}Se_{7.2})$	P3-1C	236	6.883	1624.304	0.873	2010	169960
Aluminomagnesiohulsite	$(Mg_{1.35}Fe_{0.15})(Mg_{0.5}Fe_{0.2}Al_{0.65}Sn_{0.15})O_2(BO_3)$	P12/M1	18	3.392	61.059	0.813	2004	55437
Aluminomagnesiotaramite	$Na_{1.07}(Fe_{0.06}Na_{0.73}Ca_{1.21})(Fe_{1.37}Mg_{2.40}Al_{1.20}Ti_{0.03})(Si_{6.09}Al_{1.91}O_{22})(OH)_2$	C12/M1	43	3.798	163.329	0.700	2007	157699
Aluminotaramite	$(Na_{0.89}K_{0.01})(Fe_{0.11}Na_{0.82}Ca_{1.07})(Fe_{2.17}Mg_{1.62}Al_{1.12}Ti_{0.07}Zn_{0.01}Mn_{0.01})(Si_{6.23}Al_{1.77}O_{22})((OH)_{1.86}F_{0.14})$	C12/M1	43	3.798	163.329	0.700	2006	157698
Aluminotaramite. potassic	$(Na_{0.34}K_{0.66})(Fe_{0.01}Na_{0.85}Ca_{1.14})(Fe_{3.26}Mg_{0.33}Al_{1.26}Ti_{0.05}Mn_{0.10})(Si_{6.01}Al_{1.99})O_{22}((OH)_{1.96}F_{0.03}Cl_{0.01})$	C12/M1	39	3.696	144.131	0.699	2008	162117
Aluminum	Al	FM3-M	1	0.000	0.000	Nan	1959	44321
Alumoklyuchevskite	$K_3Cu_3(Al_{0.64}Fe_{0.36})O_2(SO_4)_4$	I121	58	4.892	283.763	0.835	2008	164217
Alumopharmacosiderite	$Al_4K(AsO_4)_3(OH)_4(H_2O)_7$	P4-3M	30	2.356	70.677	0.480	1948	76972
Alumotantite	$AlTaO_4$	PBCN	24	1.918	46.039	0.418	1992	67676
Alunite	$(K_{0.75}Na_{0.25})Al_3(SO_4)_2(OH)_6$	R3-MH	20	2.333	46.664	0.540	2009	166304
Alunogen	$(Al(H_2O)_6)_2(SO_4)_3(H_2O)_5$	P-1	68	5.087	345.947	0.836	1976	12129
Alurgite 2M1	$(K_{0.94}Na_{0.06})(Mg_{0.08}Al_{1.75}Fe_{0.15}Mn_{0.02})((Al_{0.92}Si_{3.08})O_{10})(OH)_2$	C12/C1	42	3.440	144.477	0.638	1986	64968
Alvanite	$(Mg(H_2O)_6)(Mg(H_2O)_4)(CO_3)_2$	P121/N1	80	4.372	349.754	0.692	1990	69476
Amarantite	$Fe_2(SO_4)_2O(H_2O)_7$	P-1	40	4.322	172.877	0.812	1969	9649
Amarillite	$NaFe(SO_4)_2(H_2O)_6$	C12/C1	36	3.281	118.117	0.635	1990	69132
Amblygonite	$LiAl(PO_4)((OH)_{0.23}F_{0.77})$	C1-	18	3.281	59.059	0.787	2003	96809
Ameghinite	$Na_2(B_3O_3(OH)_4)_2$	C12/C1	60	3.907	234.413	0.661	1975	4219
Amesite 2A	$(Mg_2Al)(AlSiO_5)(OH)_4$	C1	36	5.170	186.117	1.000	1997	83807
Amesite 2H2	$Mg_2(Si_2O_5(OH)_4)$	$P6_3$	28	2.788	78.077	0.580	1956	16632
Amesite 6R	$Mg_2(Al_2SiO_5(OH)_4)$	R3H	28	3.788	106.077	0.788	1962	23896

Amicite	$K_4Na_4(Al_8Si_8O_{32})(H_2O)_{11.06}$	I121	34	4.146	140.974	0.815	1979	8253
Aminoffite	$Ca_3(BeOH)_2(Si_3O_{10})$	P42/NZ	88	3.550	312.430	0.550	2002	95362
Ammineite	$CuCl_2(NH_3)_2$	CMCM	22	2.369	52.107	0.531	2010	180189
Ammonioborite	$(NH_4)_3B_{15}O_{20}(OH)_8(H_2O)_4$	C12/C1	100	4.684	468.386	0.705	1971	23532
Ammoniojarosite	$(NH_4)Fe_3(SO_4)_2(OH)_6$	R3-MH	33	2.839	93.671	0.563	2007	162018
Ammonioleucite	$((NH_4)_{0.5295}K_{0.3395})(Al_{0.892}Si_{2.115}O_6)$	I41/AZ	80	3.322	265.754	0.525	1998	54162
Amphibole-(Na-Mg)	$Na_2Mg_6(Si_8O_{22}(OH)_2)$	P121/M1	82	4.528	371.319	0.712	2009	164666
Amstallite	$CaAl(OH)_2(Al_{0.8}Si_{3.2}O_8(OH)_2)((H_2O)_{.8}Cl_{.2})$	C12/C1	46	3.654	168.084	0.662	1987	68350
Analbite	$Na((AlSi_3)O_8)$	C1-	26	3.700	96.211	0.787	2011	180326
Analcime	$NaAl(Si_2O_6)(H_2O)$	IA3-D	92	1.685	155.031	0.258	1930	45047
Analcime	$Na_{0.931}(AlSi_2O_6)(H_2O)$	R3-R	92	3.973	365.521	0.609	1998	87555
Analcime	$Na_{1.71}((Al_{1.806}Si_{4.194})O_{12})(H_2O)_{2.16}$	IA3-D	92	1.685	155.031	0.258	2006	156593
Analcime	$Na_{1.71}(Si_{4.194}Al_{1.806})O_{12}(H_2O)_2$	P-1	184	6.524	1200.335	0.867	2006	156596
Analcime	$Na_{0.9}((Al_{0.9}Si_2)O_6)(H_2O)$	I12/A1	108	4.792	517.528	0.709	1988	159332
Analcime 1C	$Na(AlSi_2O_6)(H_2O)$	IA3-D	156	2.303	359.308	0.316	1972	2930
Analcime 1M	$NaAl(Si_2O_6)(H_2O)$	I12/A1	108	4.792	517.528	0.709	1988	40451
Analcime 1O	$NaAl(Si_2O_6)(H_2O)$	IBCA	80	3.422	273.754	0.541	1988	65552
Analcime 1Q	$Na_{15.76}Al_{15.26}Si_{32.74}O_{96}(H_2O)_{16}$	I41/ACDZ	92	2.871	264.168	0.440	1999	87647
Anandite 2M	$Ba(Fe_{2.73}Mg_{0.115}Al_{0.09}Mn_{0.065})((Si_{2.76}Fe_{1.24})O_{10}((OH)_{1.235}S_{0.765}))$	A1M1	40	4.622	184.877	0.868	2009	164670
Anandite 2O	$Ba(Fe_{2.59}Mg_{0.3}Al_{0.11})(Si_{1.3}Fe_{0.7})_2O_{10}(OH)S$	PNMN	84	3.869	324.955	0.605	1985	40527
Anapaite	$Ca_2Fe(PO_4)_2(H_2O)_4$	P-1	25	3.684	92.096	0.793	1979	200477
Anatacamite	$Cu_2(OH)_3Cl$	P-1	72	5.225	376.235	0.847	2009	260349

Anatase	TiO_2	I41/AMDS	6	0.918	5.510	0.355	1972	9852
Ancylite-(Ce)	$(Sr_{0.794}Ce_{1.134}Ca_{0.056}Ba_{0.02})(CO_3)_2((OH)_{0.85}F_{0.15})(H_2O)$	PMCN	24	2.252	54.039	0.491	2002	95445
Ancylite-(La)	$((Sr_{0.62}Ca_{0.1})(La_{0.54}Nd_{0.41}Pr_{0.14}Ce_{0.08}Sm_{0.02}))(CO_3)_2((OH)_{0.85}F_{0.15})(H_2O)$	PMCN	24	2.252	54.039	0.491	2001	94065
Andalusite	$Al_2(SiO_4)O$	PNNM	32	2.750	88.000	0.550	1998	85743
Andersonite	$Na_2Ca(UO_2(CO_3)_3)(H_2O)_{5.333}$	R3-MH	140	4.053	567.375	0.568	1986	36565
Andesine	$Na_{.499}Ca_{.491}(Al_{1.488}Si_{2.506}O_8)$	C1-	26	3.700	96.211	0.787	1986	66126
Andorite	$Pb_{2.4}Ag_{4.8}Sb_{12}S_{24}$	BBMM	22	2.732	60.107	0.613	1982	20815
Andorite-IV	$AgPbSb_3S_6$	PNA21	264	6.044	1595.720	0.751	1987	655628
Andorite-VI	$PbAgSb_3S_6$	PN21A	264	6.044	1595.720	0.751	1987	65132
Andradite	$Ca_3Fe_2(Si_3O_{12})$	IA3-D	80	1.595	127.637	0.252	2006	156530
Andremeyerite	$BaFe_{1.92}Mg_{.08}Si_2O_7$	P21/C	48	3.585	172.078	0.642	1988	202607
Andreyivanovite	FeCrP	PNMA	12	1.585	19.020	0.442	2008	161257
Anduoite	$RuAs_2$	PNNM	6	0.918	5.510	0.355	1977	994
Andyrobertsite	$K(Cd_{0.428}Ca_{0.426}Mn_{0.146})(Cu_5(AsO_4)_4(AsO_2(OH)_2))(H_2O)_2$	P121/M1	80	4.522	361.754	0.715	2000	89894
Angelaite	$Cu_2AgPbBiS_4$	PNMA	36	3.170	114.117	0.613	2010	167006
Angelellite	$Fe_4O_3(AsO_4)_2$	P-1	17	3.146	53.487	0.770	1978	100442
Anglesite	$Pb(SO_4)$	PNMA	24	2.252	54.039	0.491	1999	109432
Anhydrite	$Ca(SO_4)$	AMMA	12	1.918	23.020	0.535	1980	16382
Anhydrite	$Ca(SO_4)$	P6222	18	1.252	22.529	0.300	2008	159702
Anhydrite III	$Ca(SO_4)$	C222	18	2.614	47.059	0.627	1995	79527
Anilite	Cu_7S_4	PNMA	44	2.914	128.215	0.534	1970	16011

Ankangite	$Ba_{0.8}Ti_8O_{16}$	I4/M	13	1.854	24.106	0.501	1990	68631
Ankerite	$Ca_{.997}(Mg_{.273}Fe_{.676}Mn_{.054})(CO_3)_2$	R3-H	10	1.571	15.710	0.473	1992	66338
Ankinovichite	$(Ni_{0.72}Zn_{0.28})Al_4(V_{0.94}O_3)_2(OH)_{12}(H_2O)_2$	P121/N1	50	3.684	184.193	0.653	2004	250168
Annabergite	$(Ni_{0.99}Mg_{0.01})(Ni_{0.83}Mg_{0.17})_2(AsO_4)_2(H_2O)_8$	C12/M1	37	3.480	128.750	0.668	1996	81386
Annite 1M	$KFe_3((Al_{0.98}Si_{2.83}Fe_{0.19})O_{10})(OH)_2$	C12/M1	22	3.005	66.107	0.674	2002	95357
Anorthite	$Ca(Al_2Si_2O_8)$	P-1	104	5.700	592.846	0.851	1976	654
Anorthoclase	$(Na_{0.63}K_{0.27}Ca_{0.1})(Al_{1.1}Si_{2.9}O_8)$	C1-	26	3.700	96.211	0.787	2008	162494
Anorthoclase high	$(Na_{0.667}K_{0.333})(AlSi_3O_8)$	C12/M1	26	2.931	76.211	0.624	1982	31181
Anorthoclase low	$(Na_{0.85}K_{0.14})(AlSi_3O_8)$	C1-	26	3.700	96.211	0.787	1982	31184
Anorthominasragrite	$(VO)(SO_4)(H_2O)_5$	P-1	38	4.248	161.421	0.809	2003	55332
Anosovite	$(Ti_{1.69}Al_{0.26}Fe_{0.05})(Ti_{0.97}Zr_{0.03})O_5$	C12/M1	16	3.000	48.000	0.750	2009	162563
Ansermetite	$Mn(V_{1.95}O_6)(H_2O)_4$	C12/C1	42	3.440	144.477	0.638	2003	55310
Antarcticite	$CaCl_2(H_2O)_6$	P321	21	2.367	49.709	0.539	1986	59142
Anthoinite	$(AlW)O_3(OH)_3$	I1-	44	4.459	196.215	0.817	2010	168093
Anthophyllite	$(Mg_{1.30}Mn_{0.70})Mg_5Si_8O_{22}(OH)_2$	PNMA	160	4.472	715.508	0.611	2011	180627
Antigorite	$Mg_{45}Si_{32}O_{80}(OH)_{58}$	C12/M1	273	6.452	1761.323	0.797	2006	172734
Antigorite M	$Mg_{39}(Si_{28}O_{70}(OH)_{50})$	P1M1	187	6.830	1277.269	0.905	2002	95341
Antigorite M	$Mg_{2.823}(Si_2O_5)(OH)_{3.639}$	P1M1	291	7.518	2187.799	0.919	2004	98794
Antigorite T	$Mg_{39}(Si_{28}O_{70}(OH)_{50})$	P1	187	7.547	1411.269	1.000	2002	95342
Antigorite-T	$Mg_{48}(Si_{34}O_{85}(OH)_{62})$	P1	229	7.839	1795.178	1.000	2002	95343
Antigorite. superstructure	$Mg_{24}Si_{17}(OH)_{31}O_{42.5}$	P1M1	229	7.123	1631.178	0.909	1998	76992
Antimonselite	Sb_2Se_3	PNMA	20	2.322	46.439	0.537	2005	171569
Antimony	Sb	R3-MH	2	0.000	0.000	0.000	1963	64697

Antlerite	$Cu_3((OH)_{0.24}(OD)_{3.76})(SO_4)$	PNMA	64	3.500	224.000	0.583	2003	96349
Anyuiite	$AuPb_2$	I4/MCM	6	0.918	5.510	0.355	1972	56272
Apatite	$Ca_5(PO_4)_{2.928}O_{1.3}H_{1.44}$	$P6_3/m$	58	2.995	173.685	0.511	2004	171548
Apatite-(CaCl)	$Ca_5(PO_4)_3Cl$	P1121/B	84	4.392	368.955	0.687	1972	2789
Apatite-(CaF)	$Ca_5(PO_4)_3F$	$P6_3/m$	42	2.653	111.419	0.492	1972	9444
Apatite-(CaOH.CaF)	$Ca_5(PO_4)_3((OH)_{0.8}F_{0.2})$	$P6_3/m$	42	2.653	111.419	0.492	2003	99359
Apatite-(CaOH)	$Ca_5(PO_4)_3(OH)$	$P6_3/m$	42	2.653	111.419	0.492	1996	81442
Apatite-(CaOH)	$Ca_5(PO_4)_3(OH)$	P63	42	3.034	127.419	0.563	2011	180315
Apatite-(PbF)	$Pb_5(PO_4)_3F$	$P6_3/m$	42	2.653	111.419	0.492	2010	166321
Apatite-(PbOH)	$Na_{1.69}Pb_{8.31}(PO_4)_{5.76}(HPO_4)_{0.24}(OH)_{0.55}$	P3	41	3.966	162.601	0.740	2008	168290
Apatite-Sr	$Sr_{10}(PO_4)_6O$	$P6_3/m$	42	2.653	111.419	0.492	2009	168209
Aphthitalite	$KNa(SO_4)$	P3M1	14	3.128	43.793	0.822	1980	26014
Aphthitalite	$K_3Na(SO_4)_2$	P3-M1	14	2.271	31.793	0.596	1980	26018
Aphthitalite	$K_{1.5}Na_{.5}(SO_4)$	P63/MMC	6	1.585	9.510	0.613	1962	27466
Apjohnite	$MnAl_2(SO_4)_4(H_2O)_{22}$	P21/C	356	6.476	2305.361	0.764	1976	14038
Aplowite	$Co(SO_4)(D_2O)_4$	P121/N1	72	4.170	300.235	0.676	1992	66696
Apophyllite	$KCa_4(Si_4O_{10})_2(F_{.84}(OH)_{.16})(H_2O)_8$	P4/MNC	120	3.207	384.827	0.464	1976	12108
Apophyllite-(KF)	$KCa_4Si_8O_{20}F(H_2O)_8$	P4/MNC	116	3.099	359.526	0.452	1987	49904
Apophyllite-(KOH)	$KCa_4(Si_8O_{20})(OH)(H_2O)_8$	P4/MNC	116	3.099	359.526	0.452	1978	100609
Apophyllite-(NaF)	SiO_2	PNNM	72	5.170	372.235	0.838	1981	34867
Apuanite	$Fe_{18.24}Sb_{15.36}Zn_{0.8}As_{1.6}O_{48}S_{3.36}$	P42/MBC	88	3.005	264.430	0.465	1979	100541
Aragonite	$Ca(CO_3)$	PNMA	20	1.922	38.439	0.445	1998	52152

Arakiite	$(Zn_{0.71}Mn_{0.29})(Mn_{7.77}Mg_{4.23})(Fe_{1.26}Al_{0.74})(AsO_3)(AsO_4)_2(OH)_{23}$	C1C1	104	5.700	592.846	0.851	1999	87742
Aramayoite	$Ag_3(Sb_2Bi)S_6$	P-1	24	3.585	86.039	0.782	2002	94646
Arapovite	$(U_{0.59}Th_{0.26}Ca_{0.10}Dy_{0.02}Sm_{0.01}Pr_{0.01})(Ca_{1.23}Na_{0.68}Nd_{0.05}Ce_{0.03}Ba_{0.01})K_{0.52}(Si_8O_{20})$	P4/MCC	64	2.438	156.000	0.406	2004	54804
Aravaipaite	$Pb_3(AlF_6)F_3(H_2O)$	P121/N1	56	3.807	213.212	0.656	2001	92757
Aravaipaite	$Pb_3AlF_9(H_2O)$	P-1	30	3.907	117.207	0.796	2011	180335
Arcanite	$K_2(SO_4)$	PNAM	28	2.522	70.606	0.525	1972	2827
Archerite	$K(H_2PO_4)$	I4-2D	16	1.750	28.000	0.438	1982	201374
Arctite	$(Na_5Ca)Ca_6BaF_3(PO_4)_6$	R3-MR	46	3.533	162.535	0.640	1984	20649
Ardealite	$Ca_2(HPO_4)(SO_4)(H_2O)_4$	C1C1	32	4.000	128.000	0.800	1978	100626
Ardennite	$(MnMg)(Mn_{1.4}Ca_{0.6})Al_4(MgAl_{0.8}Mn_{0.2})(SiO_4)_2(Si_3O_{10})(As_{0.25}P_{0.25}V_{0.25}Si_{0.25}O_{3.75})(OH)_{6.25}$	PNMMZ	88	4.323	380.430	0.669	1994	75616
Arfvedsonite	$(Fe_{4.266}Zn_{0.085}Zr_{0.01}Ti_{0.1}Li_{0.38}Mn_{0.16})(Ca_{0.04}Na_{1.96})(Na_{0.58}K_{0.42})(Al_{0.06}Si_{7.94})O_{22}(O_{0.2}(OH)_{0.83}F_{0.97})$	C12/M1	40	3.672	146.877	0.690	2001	92813
Argentite	Ag_2S	IM3-M	7	0.592	4.142	0.211	1980	9586
Argentojarosite	$Ag(Fe_{2.88}Al_{0.12})(SO_4)_2(OH)_6$	R3-MH	26	2.574	66.927	0.548	2003	55318
Argentopentlandite	$Fe_{4.83}Ni_{3.17}Ag_{0.99}S_8$	FM3-M	17	1.646	27.977	0.403	1973	40051
Argentopyrite	$AgFe_2S_3$	P1121/N	24	2.585	62.039	0.564	2009	165661
Argentotennantite	$Cu_{7.02}Ag_{2.88}Zn_{1.26}Fe_{0.84}Sb_4S_{12.97}$	I4-3M	29	2.029	58.842	0.418	1993	39692
Argutite	GeO_2	P42/MNM	6	0.918	5.510	0.355	1971	9162
Argyrodite	$Ag_8(GeS_4)S_2$	PNA21	60	3.907	234.413	0.661	1977	100079
Argyrodite	Ag_9AlS_6	F4-3M	13	1.892	24.596	0.511	2006	409872
Argyrodite	Cu_7SiS_5I	F4-3M	13	1.892	24.596	0.511	2005	414354

Aristarainite	$Na_2Mg(B_6O_8(OH)_4)_2(H_2O)_4$	P121/A1	122	4.947	603.550	0.714	1977	10417
Arkelite	$ZrO_{2.12}$	FM3-M	3	0.918	2.755	0.579	1993	72955
Armalcolite	$MgTi_2O_5$	BBMM	16	2.250	36.000	0.563	1989	65796
Armangite	$Mn_{26}(As_6(OH)_4O_{14})(As_6O_{18})_2(CO_3)$	P3-	105	4.184	439.330	0.623	1979	100555
Armbrusterite	$K_5Na_6Mn_{15}(Si_9O_{22})_4(OH)_{10}(H_2O)_{6.02}$	C12/M1	173	5.620	972.191	0.756	2007	156193
Armenite	$BaCa_2Al_6Si_9O_{30}(H_2O)_2$	P6/MCC	104	2.637	274.199	0.393	1974	24977
Armenite	$BaCa_2(Al_6Si_9O_{30})(H_2O)_2$	PNNA	200	4.724	944.771	0.618	1992	66342
Armenite	$BaCa_2(Al_6Si_9O_{30})(H_2O)_{2.11}$	PNC2	204	5.712	1165.175	0.744	1999	87715
Armstrongite	$(Ca_{0.91}Na_{0.09})(Zr_{0.96}Y_{0.03}Ti_{0.01})(Si_6O_{15})(H_2O)_3$	C121	52	4.777	248.423	0.838	2000	92575
Arrojadite	$Na_3SrAlCrMn_6Fe_{7.13}(PO_4)_{12}(H_2O)$	C12/C1	166	5.435	902.257	0.737	2010	417405
Arrojadite-(BaFe)	$(Ca_{0.79}Sr_{0.20})Na_{3.26}(Ba_{0.78}K_{0.12}Pb_{0.07}Sr_{0.02})(Fe_{8.11}Mg_{5.68}Mn_{0.21})Al(PO_4)_{12}(OH)_2$	C12/C1	166	5.435	902.257	0.737	1996	82491
Arrojadite-(KFe)	$K_{0.75}Na_{4.11}H_{0.26}CaMn_4(Li_{0.12}Mg_{0.5}Fe_{9.38})Al(PO_4)_{12}(OH)_2$	C12/C1	166	5.435	902.257	0.737	1981	31752
Arrojadite-(KNa)	$K_{0.83}Na_{5.01}(Ca_{0.91}Sr_{0.01})(Fe_{9.18}Mn_{1.02}Mg_{2.8})Al(P_{12}O_{47}(F_{0.03}(OH)_{2.97}))$	C1C1	174	6.443	1121.072	0.866	2006	156570
Arrojadite-(SrFe)	$Na_{2.94}Sr_{0.93}(Ca_{0.59}Ba_{0.2}Pb_{0.03}K_{0.03})(Fe_{6.61}Mg_{3.60}Mn_{3.39})Al(P_{12}O_{47}(OH))((OH)_{1.1}F_{0.9})$	C1C1	170	6.409	1089.596	0.865	2006	156571
Arsenbrackebuschite	$Pb_2Fe_{0.65}Zn_{0.35}(OH)_{0.65}(H_2O)_{0.35}(AsO_4)_2$	B121/M1	28	3.522	98.606	0.733	1978	100411
Arsendescloizite	$PbZn(OH)(AsO_4)$	P212121	36	3.170	114.117	0.613	2003	98385
Arsenic	As	R3-MH	2	0.000	0.000	0.000	1969	16516
Arseniopleite	$(Ca_{0.68}Na_{0.32})(Na_{0.93}Pb_{0.06}Ba_{0.01})Mn(Mn_{1.21}Mg_{0.52}Fe_{0.27})(AsO_4)_3$	I12/A1	42	3.535	148.477	0.656	2003	97310
Arsenoclasite	$Mn_5(OH)_4(AsO_4)_2$	P212121	76	4.248	322.842	0.680	1971	15210

Arsenoflorencite-(La)	$La(Al_{0.89}Fe_{0.11})_3((As_{0.87}P_{0.13})O_4)_2(OH)_6$	R3-MH	26	2.574	66.927	0.548	2010	168546
Arsenohauchecornite	$Ni_{18}Bi_3AsS_{16}$	I4/MMM	38	2.616	99.421	0.499	1989	203066
Arsenolamprite	As	CMCA	4	0.000	0.000	0.000	1975	609832
Arsenolite	As_2O_3	FD3-MZ	20	0.971	19.419	0.225	2002	409611
Arsenopyrite	AsFeS	B1-	12	2.585	31.020	0.721	1961	43509
Arsenopyrite	FeAsS	C1121/D	12	1.585	19.020	0.442	1987	62400
Arsenopyrite	FeAsS	B121/D1	12	1.585	19.020	0.442	1961	109206
Arsenostruvite	$Mg(NH_4)(AsO_4)(H_2O)_6$	PMN21	60	4.240	254.413	0.718	1973	2531
Arsenosulvanite	$Cu_{1.8}V_{1.8}(As_{5.58}V_{0.42}Cu_{23.3})S_{32}$	P4-3N	72	2.703	194.647	0.438	2002	96771
Arsentsumebite	$Pb_2Cu(AsO_4)(SO_4)(OH)$	P121/M1	28	3.522	98.606	0.733	2002	95489
Arthurite	$Fe_2Cu((OH)_2(AsO_4)_2(H_2O)_4)$	P21/C	38	3.301	125.421	0.629	1978	100444
Artinite	$Mg_2(CO_3)(OH)_2(H_2O)_3$	C12/M1	22	3.278	72.107	0.735	1977	1320
Artroeite	$Pb(AlF_3(OH)_2)$	P-1	18	3.170	57.059	0.760	1995	79740
Arzakite	$Hg_3S_2(Br_{1.5}Cl_{0.5})$	C12/M1	28	3.307	92.606	0.688	2006	156231
Arzakite	$Hg_3S_2(Br_{1.5}Cl_{0.5})$	PM3-N	224	3.353	751.025	0.429	2006	156232
Asbecasite	$Ca_3Ti(As_6Be_2Si_2O_{20})$	P3-C1	68	2.946	200.359	0.484	1993	74290
Aschamalmite	$Pb_2(Pb_{3.92}Bi_{2.08})S_9$	C12/M1	34	4.146	140.974	0.815	2009	166294
Ashburtonite	$HPb_4Cu_4(Si_4O_{12})(HCO_3)_4(OH)_4Cl$	I4/M	45	3.181	143.133	0.579	1991	80794
Ashcroftine-(Y)	$K_{10.4}Na_{8.68}Y_{24}(OH)_4(CO_3)_{16}(Si_{54.16}O_{134.96})(H_2O)_{16}$	I4/MMM	329	4.897	1611.080	0.586	1987	202506
Asisite	$Pb_7O_8Cl_2$	I4/MMM	9	1.837	16.529	0.579	2004	151493
Astrakhanite. zincian	$Na_2Zn(SO_4)_2(H_2O)_4$	P21/C	50	3.684	184.193	0.653	2008	241227
Astrophyllite	$Fe_{6.314}K_{1.875}Na(Ti_2Si_8O_{24})(O_3(OH)_4)$	P1	55	5.781	317.975	1.000	2001	94308
Astrophyllite	$KCa_{.199}Na_{.475}Mn_{6.169}Mg_{.069}(Ti_{1.762}Nb_{.238})Si_8O_{30}H_3F_{.5}$	C12/C1	102	4.770	486.587	0.715	2003	171942

Astrophyllite. magnesian	$K_2Na_2Fe_4Mg_2Ti_2(Si_4O_{12})_2(OH)_6$	A121	50	4.844	242.193	0.858	1998	52032
Astrophyllite. magnesian	$(K_{1.96}Ba_{0.01})(Na_{0.65}Ca_{0.14})(Fe_{3.2}Mn_{0.75}Mg_{2.05}Na)(Ti_{1.97}Nb_{0.03})(SiO_3)_8O_2(OH)_4F_{0.17}$	C12/M1	51	4.025	205.294	0.710	2008	160475
Atacamite	$Cu_2Cl(OH)_3$	PNMA	36	2.725	98.117	0.527	2005	153706
Atelestite	$Bi_2O(OH)(AsO_4)$	$P2_1/c$	36	3.170	114.117	0.613	1986	70112
Atheneite	$Pd_2(As_{0.73}Hg_{0.27})$	P6-2M	9	1.891	17.020	0.597	2010	169939
Atokite	$(Pd_{0.5}Pt_{0.5})_3Sn$	PM3-M	4	0.811	3.245	0.406	1981	105657
Attakolite	$CaMnAl_4(HSiO_4)(PO_4)_3(OH)_4$	C12/M1	70	4.501	315.050	0.734	1992	67528
Aubertite	$AlCuCl(SO_4)_2(H_2O)_{14}$	P-1	55	4.836	265.975	0.836	1979	8225
Augelite	$Al_2PO_4(OH)_3$	C12/M1	20	2.922	58.439	0.676	1968	24430
Augite	$Ca_{.818}Mg_{.792}Fe_{.183}Fe_{.086}Al_{.151}Al_{.269}Si_{1.731}O_6$	C12/C1	20	2.522	50.439	0.584	1972	9257
Aurichalcite	$Zn_3Cu_2(OH)_6(CO_3)_2$	P121/M1	38	3.932	149.421	0.749	1994	75323
Auricupride	Au_3Cu	PM3-M	4	0.811	3.245	0.406	1991	56266
Aurosmiridium	$Ir_{0.55}Os_{0.25}Au_{0.2}$	FM3-M	1	0.000	0.000	Nan	1934	52272
Aurostibite	$AuSb_2$	PA3-	12	0.918	11.020	0.256	1967	43107
Austenite	$Fe_{0.94}C_{0.06}$	FM3-M	1	0.000	0.000	Nan	1970	108132
Austinite	$CaZn(AsO_4)(OH)$	P212121	36	3.170	114.117	0.613	1997	85131
Autunite	$Ca_{0.86}(H_3O)_{0.28}((UO_2)(PO_4))_2(H_2O)_{11}$	PNMA	200	4.724	944.771	0.618	2003	96812
Averievite	$(Cu_5O_2(VO_4)_2)(CuCl_2)$	P3	18	3.642	65.549	0.873	1997	85128
Avicennite	Tl_2O_3	IA3-	40	1.295	51.818	0.243	1993	74090
Awaruite	Ni_3Fe	PM3-M	4	0.811	3.245	0.406	1981	40334
Axinite	$FeCa_2Al_2(BO_3)(Si_4O_{12})OH$	P-1	52	4.700	244.423	0.825	1969	26915
Axinite-(Fe)	$(Ca_4(Fe_{0.94}Mg_{0.06})_2(Al_{0.98}Fe_{0.02})_2Al_2)(BO_3)_2(Si_4O_{12}(OH))_2$	P-1	54	4.755	256.764	0.826	2006	156218

Axinite-(Mg)	$Ca_2(Ca_{1.95}Mn_{0.03})(Mg_{1.92}Mn_{0.04}V_{0.03}Cr_{0.01})Al_4(BO_3)_2(Si_2O_6)_4((OH)_{1.9}O_{0.1})$	P-1	54	4.755	256.764	0.826	2000	90029
Azurite	$Cu_3(CO_3)_2(OH)_2$	P21/C	30	2.974	89.207	0.606	2007	417591
Babefphite	$BaBe(PO_4)F$	F1	16	4.000	64.000	1.000	1980	200922
Babingtonite	$Ca_2FeFe(Si_5O_{14})(OH)$	P-1	50	4.644	232.193	0.823	1990	69447
Baddeleyite	ZrO_2	PBCM	12	1.585	19.020	0.442	1986	41012
Baddeleyite	ZrO_2	P21/C	12	1.585	19.020	0.442	1995	41572
Bafertisite	$BaFe_2Ti(Si_2O_7)O(OH)_2$	P121/M1	32	3.500	112.000	0.700	1963	20290
Bafertisite	$BaFe_2(TiO)(Si_2O_7)(OH)_2$	C1M1	64	5.219	334.000	0.870	1963	20369
Baghdadite	$Ca_3Zr(Si_2O_7)O_2$	P21/C	60	3.907	234.413	0.661	1995	79453
Bahianite	$(Al_{4.76}Fe_{.24})(Sb_{2.9}Fe_{.1})O_{16}H_{2.2}$	C12/M1	24	3.002	72.039	0.655	1976	14050
Baikovite	$Ca_{1.07}Mg_{0.625}Ti_{0.31}((Al_{.55}Si_{.45})_2O_6)(Al(Mg_{0.386}Ti_{.585}Al_{0.03})_2O_4)$	P-1	68	5.117	347.947	0.841	1995	39877
Bainite (upper)	Fe_3C	P6322	8	0.811	6.490	0.270	1985	42542
Baiyuneboite-(Ce)	$Ca_{0.5}BaCe_2(CO_3)_4F$	P6-2C	42	2.629	110.438	0.488	1992	73672
Baiyuneboite-(Ce)	$(Na_{0.44}Ca_{0.35})Ba(Ce_{1.85}Sr_{0.15})(CO_3)_4F$	P63/MMC	42	2.629	110.438	0.488	1998	77504
Bakerite	$Ca(Si_{0.75}B_{1.25}O_{3.75}(OH)_{1.25})$	P21/C	32	3.000	96.000	0.600	2004	171845
Bakhchisaraitsevite	$(Na_2(H_2O)_2)((Mg_{4.472}Fe_{0.528})(PO_4)_4(H_2O)_5)$	P21/C	200	5.644	1128.771	0.738	2000	89895
Balipholite	$BaMg_2LiAl(Al_2Si_4O_{12}(OH)_4)F_4$	CCCAZ	70	3.358	235.050	0.548	1987	68260
Balyakinite	$CuTeO_3$	PMCN	40	2.722	108.877	0.511	1972	14168
Bamfordite	$Fe(Mo_2O_6(OH)_3)(H_2O)$	P-1	26	3.700	96.211	0.787	1998	77506
Banalsite	$BaNa_2(AlSiO_4)_4$	IBA2	54	3.792	204.764	0.659	2006	156658
Bandylite	$CuCl(B(OH)_4)$	P4/NS	22	2.005	44.107	0.450	2000	56963
Bannermanite	NaV_6O_{15}	A12/M1	22	3.550	78.107	0.796	1989	80813

Bannisterite	$Ca_{0.5}K_{0.38}(Mn_{6.15}Fe_{1.43}Mg_{1.42}Zn)((Si_{14.824}Al_{1.176})O_{38})(OH)_8(H_2O)_{5.845}$	A12/A1	320	6.347	2031.017	0.763	1992	80078
Baotite	$Ba_4Ti_4(Ti_{0.48}Nb_{0.36}Fe_{0.16})_4(Si_4O_{12})O_{16}Cl$	I41/AZ	90	3.536	318.267	0.545	1977	41848
Bararite	$(NH_4)_2(SiF_6)$	P3-M1	9	1.224	11.020	0.386	1966	18027
Baratovite	$KLi_3Ca_7Ti_{1.74}Zr_{0.26}(Si_6O_{18})_2F_2$	C12/C1	126	5.025	633.137	0.720	1979	100493
Barberiite	$(NH_4)(BF_4)$	PNMA	40	2.922	116.877	0.549	1971	9918
Barbertonite	$(Mg_{0.75}Cr_{0.25})(CO_3)_{0.124}(OH)_2(H_2O)_{0.093}$	P63/MMC	10	1.922	19.219	0.579	2011	180084
Barbosalite	$Fe_3(PO_4)_2(OH)_2$	P121/N1	34	3.146	106.974	0.618	2000	91881
Barentsite	$Na_7AlH_2(CO_3)_4F_4$	P-1	30	4.040	121.207	0.823	1983	77052
Baricite	$(Mg_{1.70}Fe_{1.30})(PO_4)_2(OH)_{0.11}(H_2O)_{7.89}$	C12/M1	37	3.480	128.750	0.668	2001	92977
Barillite	$BaBe_2(Si_2O_7)$	PN21A	48	3.585	172.078	0.642	1962	166582
Bario-olgite	$Ba_{0.94}K_{0.06}Na_{2.12}Sr_{0.66}Ce_{0.18}Ca_{0.04}(PO_4)_2$	P3	14	3.128	43.793	0.822	2004	250127
Bariohexaferrite (Co. Ti-substituted)	$Ba(Fe_{10.3}Co_{0.85}Ti_{0.85}O_{19})$	P63/MMC	64	3.147	201.432	0.525	2002	55283
Bariomicrolite	$Ba_{0.4}H_{1.2}Ta_2O_6H_2O$	FD3-MZ	22	1.686	37.088	0.378	1975	45824
Bariopharmacosiderite - Q	$Ba_{0.5}Fe_4(OH)_4(AsO_4)_3(H_2O)_{6.16}$	P4-2M	30	2.907	87.207	0.592	2010	180191
Bariopharmacosiderite-C	$(Ba_{0.47}K_{0.04}Na_{0.02})(Fe_{3.97}Al_{0.03})(OH)_4((As_{0.72}P_{0.28})O_4)_3(H_2O)_{2.52}$	P4-3M	30	2.356	70.677	0.480	2010	180192
Bariopyrochlore	$(Ba_{0.39}Tl_{0.20}Ce_{0.04}Th_{0.05})(Nb_{1.8}Ti_{0.19}Fe_{0.01})O_{5.47}(OH)_{0.53}$	FD3-MS	20	1.371	27.419	0.317	2006	172026
Bariosincosite	$Ba((VO)(PO_4))_2(H_2O)_4$	P1C1	54	4.755	256.764	0.826	1999	88133
Barite	$Ba(SO_4)$	PNMA	24	2.252	54.039	0.491	2011	180337
Barite high	$Ba(SO_4)$	F4-3M	6	1.252	7.510	0.484	1987	62368
Bariumosumilite-(Mg)	$BaMg_2(Al_6Si_9O_{30})$	P6/MCC	96	2.432	233.510	0.369	1995	79843

Barnesite (dehydrated)	$NaCa_{.5}V_6O_{16}$	P121/M1	24	3.585	86.039	0.782	1962	15751
Barnesite. calcian (hydrated)	$NaCa_{0.5}V_6O_{16}(H_2O)_2$	P121/M1	26	3.700	96.211	0.787	1962	43487
Barrerite	$Na_{16}(Al_{16}Si_{56}O_{144})(H_2O)_{7.2}$	AMMA	130	4.330	562.908	0.617	2009	162321
Barrerite (Ca-exchanged)	$Ca_{7.36}(Al_{16.99}Si_{55.01}O_{144})(H_2O)_{72.4}$	FMMM	76	3.827	290.842	0.613	1984	201868
Barringerite	Fe_2P	P6-2M	9	1.891	17.020	0.597	1988	633061
Barstowite	$(PbCl_2)_3(Pb(CO_3))(H_2O)$	P121/M1	34	3.499	118.974	0.688	1999	88936
Bartonite	$K_{5.68}Fe_{20.368}S_{26.925}$	I4/MMM	57	2.956	168.475	0.507	1981	100746
Barylite	$BaBe_2Si_2O_7$	PNMA	48	2.752	132.078	0.493	1977	100030
Barysilite	$Pb_6(Pb_{1.82}Ca_{0.18})Mn(Si_2O_7)_3$	R3-CH	72	2.828	203.627	0.458	2002	95503
Barytocalcite	$BaCa(CO_3)_2$	P1211	20	3.322	66.439	0.769	1958	157982
Barytolamprophyllite	$(Ba_{0.88}K_{0.61}Sr_{0.33}Ca_{0.05})(Na_{2.09}Fe_{0.3}Mn_{0.28}Ca_{0.08}Mg_{0.05})(Ti_{2.91}Fe_{0.05}Al_{0.03}Nb_{0.01})(Si_2O_7)_2O_2(F_{0.73}(OH)_{0.7}O_{0.57})$	C12/M1	30	3.440	103.207	0.701	2008	160433
Bassanite	$Ca(SO_4)(H_2O)_{0.67}$	B112	42	4.440	186.477	0.823	1980	20803
Bassanite	$Ca(SO_4)(H_2O)_{0.6}$	C121	24	3.668	88.039	0.800	1991	69061
Bassanite	$Ca(SO_4)(H_2O)_{0.5}$	P3121	21	2.236	46.954	0.509	1993	73262
Bastnaesite-(Ce)	$Ce(CO_3)F$	P6-2C	36	2.405	86.568	0.465	1993	72939
Bastnaesite-(La)	$Ca(Cu_{0.66}Zn_{0.34})_4(OH)_6(SO_4)_2(H_2O)_3$	P6-2C	96	4.627	444.156	0.703	1931	36087
Batiferrite	$(Ba_{0.84}Na_{0.06}K_{0.06}Sr_{0.05})(Fe_{9.36}Ti_{2.33}Mg_{0.31})O_{19}$	P63/MMC	62	3.042	188.592	0.511	2001	93965
Batisite	$(Ba_{0.63}K_{0.37})(Na_{1.3}K_{0.7})(Ti_{0.72}Fe_{0.16}Nb_{0.06}Zr_{0.06})_2(Si_2O_7)_2$	IMCM	46	3.219	148.084	0.583	1987	76521
Batisite (K-bearing)	$KNa(Ba_{0.7}Ca_{0.1})Ti(Ti_{0.6}Fe_{0.4})(Si_4O_{12})(O_{0.6}(OH)_{0.4})_2$	IMA2	46	3.828	176.084	0.693	1997	85110
Batisivite	$(V_{5.56}Cr_{2.16}Fe_{0.26}Nb_{0.032})(Ti_{5.69}V_{0.31})Ba_{1.02}(Si_2O_7)_{0.98}O_{22.12}$	P-1	48	4.668	224.078	0.836	2008	161814

Baumhauerite	$Pb_{11.62}As_{16.6}S_{36}$	P1	66	6.044	398.930	1.000	1969	18123
Baumstarkite	$Ag_3(Sb_{2.934}As_{0.040}Bi_{0.026})S_6$	P-1	24	3.585	86.039	0.782	2002	94645
Bavenite	$Ca_4(Be_3AlSi_9O_{25}(OH)_3)$	CMCM	86	3.891	334.659	0.606	2010	168118
Bayerite	$Al(OH)_3$	P121/A1	28	2.807	78.606	0.584	1967	26830
Bayerite	$Al(OH)_3$	P3-1M	8	0.811	6.490	0.270	1958	38108
Bayerite	$Al(OH)_3$	C12/M1	8	1.500	12.000	0.500	1955	38303
Bayldonite	$Cu_3Pb(AsO_4)_2(OH)_2$	C12/C1	36	3.392	122.117	0.656	1979	8268
Bayleyite	$Mg_2(UO_2(CO_3)_3)(H_2O)_{18}$	P121/A1	244	5.947	1451.100	0.750	1986	32101
Baylissite	$K_2Mg(CO_3)_2(H_2O)_4$	P121/N1	46	3.567	164.084	0.646	1977	200006
Bazhenovite	$((Ca_2(H_2O)_4(OH)_3)_2)((H_2O)O(S_3)_{1.46})$	P21/C	88	4.459	392.430	0.690	2005	171820
Bazirite	$Bi_2O(OH)(AsO_4)$	P6-C2	36	3.170	114.117	0.613	1987	70112
Bazzite	$Na_{0.36}(Cs_{0.14}(H_2O)_{0.87})(Sc_{0.68}Fe_{0.26}Al_{0.06})_2Be_3Si_6O_{18}$	P6/MCC	62	2.348	145.572	0.394	2000	90829
Bearsite	$Be_2(AsO_4)(OH)(H_2O)_4$	P121/A1	84	4.392	368.955	0.687	1993	74041
Bearthite	$Ca_2Al(PO_4)_2(OH)$	P121/M1	28	3.522	98.606	0.733	1993	74169
Beaverite	$PbFe_3(SO_4)_2(OH)_6$	R3-MH	20	2.333	46.664	0.540	1992	67682
Bechererite	$Zn_7Cu(O_4H_7)_{0.3}(OH)_{13}((SiO(OH)_3)_{0.7}(SO_4))$	P3	43	4.099	176.271	0.755	1997	83766
Becquerelite	$Ca((UO_2)_6O_4(OH)_6)(H_2O)_8$	PN21A	148	5.209	770.999	0.723	2002	94620
Bederite	$Ca_2(Mn_{1.01}Mg_{0.89}Fe_{1.88}Zn_{0.05}Al_{0.17})Mn_2(Na_{0.21}Ca_{0.05})(PO_4)_6(H_2O)_2$	PCAB	180	4.514	812.534	0.603	1999	87693
Behierite	$TaBO_4$	I41/AMDS	12	1.252	15.020	0.349	1953	20383
Behierite-(Nb)	$Nb(BO_4)$	I41/AMDZ	12	1.252	15.020	0.349	1988	63202
Behoite	$Be(OH)_2$	P212121	12	1.585	19.020	0.442	1950	25569
Belendorffite	Cu_7Hg_6	R3MR	26	3.007	78.172	0.640	1969	56268

Belkovite	$Ba_3(Ti_{1.2}Nb_{4.8})(Si_2O_7)_2O_{11.4}$	P6-2M	39	2.765	107.827	0.523	1990	39223
Bellbergite	$K_2Sr_2Ca_6(Al_{18}Si_{18})O_{72}(H_2O)_{30}$	P63/MMC	160	3.695	591.274	0.505	1993	64728
Bellidoite	Cu_2Se	F4-3M	3	1.585	4.755	1.000	1945	30230
Bellingerite	$(Cu(IO_3)_2)_3(H_2O)_2$	P-1	29	3.892	112.881	0.801	1974	2063
Bellite	Co_3BO_5	P63/M	36	3.281	118.117	0.635	1988	70103
Belloite	Cu(OH)Cl	P121/A1	16	2.000	32.000	0.500	1984	38384
Belovite	$Sr_5(PO_4)_3(OH)$	P63/M	42	2.653	111.419	0.492	1972	2855
Belovite-(Ce)	$(Sr_{0.85}Ce_{0.06}Na_{0.05}Ba_{0.02}Nd_{0.02})_6(Na_{0.84}Nd_{0.12})_2(Ce_{0.38}La_{0.31}Sr_{0.22}Ba_{0.09})_2(PO_4)_6F_2Cl_{0.021}$	P3-	43	3.123	134.271	0.575	2000	89897
Belovite-(La)	$(Na_{0.777}La_{0.213})(La_{0.786}Na_{0.204})(Sr_{0.918}Ba_{0.04}Ca_{0.02})_3(PO_4)_3(OH)$	P3-	42	3.034	127.419	0.563	1997	84281
Bementite	$Mn_{6.927}(Si_6O_{15})(OH)_8$	P21/C	288	6.184	1780.938	0.757	1994	75304
Benavidesite	$MnPb_4Sb_6S_{14}$	P21/C	50	3.684	184.193	0.653	2003	98581
Benitoite	$BaTi(Si_3O_9)$	P6-C2	28	2.020	56.567	0.420	1969	18100
Benjaminite	$Cu_{.5}Pb_{.4}Ag_{2.3}Bi_{6.8}S_{12}$	C12/M1	22	3.550	78.107	0.796	1979	41752
Benstonite	$Ba_6Ca_6Mg(CO_3)_{13}$	R3-H	68	3.579	243.340	0.588	1979	100479
Bentonite	$(Ca_{0.06}Na_{0.21}K_{0.27})(Al_{1.64}Fe_{0.06}Mg_{0.31})(Al_{0.29}Si_{3.71}O_{10}(OH)_2)$	C12/M1	20	2.822	56.439	0.653	1984	160437
Benyacarite	$K_{0.32}Ti(Fe_{0.21}Mn_{0.75}Mg_{0.04})_2(Al_{0.07}Fe_{0.68}Ti_{0.28})_2(PO_4)_4(O_{0.6}F_{0.4})_2(H_2O)_{15.56}$	PBCA	260	5.038	1309.816	0.628	1993	67962
Beraunite	$Fe_6(OH)_5(H_2O)_4(PO_4)_4(H_2O)_2$	C12/C1	108	4.829	521.528	0.715	1992	36588
Berborite 1T	$Be_2(BO_3)(OH)(H_2O)$	P321	14	2.074	29.038	0.545	1990	56888
Berborite 1T	$Be_2(BO_3)(OH)(H_2O)$	P3	14	2.788	39.038	0.732	1990	69452
Berborite 2H	$Be_2(BO_3)(OH)(H_2O)$	P63	28	2.788	78.077	0.580	1990	66250

Berborite 2T	$Be_2(BO_3)(OH)(H_2O)$	P3C1	28	2.788	78.077	0.580	1990	69453
Bergenite	$Ca_2(Ba_{3.69}Ca_{0.31})((UO_2)_3O_2(PO_4)_2)_3(H_2O)_{16}$	P21/C	170	5.421	921.596	0.732	2003	97314
Bergslagite	$CaBeAsO_4(OH)$	P21/C	32	3.000	96.000	0.600	1984	31384
Berlinite	$AlPO_4$	P3121	18	1.918	34.529	0.460	1976	9641
Berlinite	$Al(PO_4)$	P6422	18	1.252	22.529	0.300	1997	66999
Bermanite	$Mn(H_2O)_4Mn_2(OH)_2(PO_4)_2$	P1211	38	4.248	161.421	0.809	1976	12125
Bernalite	$Fe(OH)_3(H_2O)_{0.25}$	IMMM	17	2.205	37.487	0.539	1993	73441
Bernardite	$Tl(As_5S_8)$	P21/C	56	3.807	213.212	0.656	1989	63481
Berndtite	SnS_2	P3-M1	3	0.918	2.755	0.579	1977	42566
Berndtite 2T	SnS_2	P3-M1	3	0.918	2.755	0.579	1978	100612
Berndtite 4H	SnS_2	P63MC	6	1.585	9.510	0.613	1968	43003
Berndtite-3R	SnS_2	P3-M1	3	0.918	2.755	0.579	1981	651022
Berryite	$Cu_3Ag_2Pb_3Bi_7S_{16}$	P121/M1	62	4.954	307.160	0.832	2006	156649
Berthierite	$FeSb_2S_4$	PNMA	28	2.807	78.606	0.584	2001	93912
Berthierite 1O	$FeSb_2S_4$	PNAM	28	2.807	78.606	0.584	1989	79675
Bertrandite	$Be_4Si_2O_7(OH)_2$	CMC21	34	3.382	114.974	0.665	1987	202360
Beryl	$Al_2Be_3(SiO_3)_6(H_2O)_{0.0991}$	P6/MCC	60	2.214	132.825	0.375	1972	2791
Beryllonite	$NaBePO_4$	P121/N1	84	4.392	368.955	0.687	1973	9271
Berzelianite	Cu_2Se	FM3-M	3	0.918	2.755	0.579	1991	41141
Berzeliite	$NaCa_2(Mg_{.85}Mn_{.15})_2As_3O_{12}$	IA3-D	80	1.595	127.637	0.252	1976	27682
Betafite	$(Ca_{1.29}Na_{0.18}U_{0.50}Ce_{0.03})(Ti_{1.09}Nb_{0.79}Zr_{0.14}Fe_{0.04}Ta_{0.01})O_6(O_{0.98}F_{0.02})$	FD3-MZ	22	1.686	37.088	0.378	2004	151522
Betekhtinite	$Pb_2Cu_{20}Fe_{1.33}S_{15}$	IMMM	43	3.798	163.329	0.700	1959	26494

Betpakdalite	$(Mg(H_2O)_6)(Ca_2(H_2O)_{13})(Mo_8As_2Fe_3O_{36}(OH))(H_2O)_4$	C12/M1	75	4.682	351.161	0.752	1999	87745
Beudantite	$Pb_{0.38}(H_3O)_{0.28}Na_{0.34}Fe_{2.79}(SO_4)_{1.61}(AsO_4)_{0.39}(OH)_{5.36}$	R3-MH	26	2.574	66.927	0.548	2001	51668
Beusite	$(Mn_{1.5}Fe_{1.5})(PO_4)_2$	P21/C	52	3.700	192.423	0.649	1991	71051
Beyerite	$CaBi_2(CO_3)_2O_2$	IMMM	13	2.470	32.106	0.667	2002	94741
Biachellaite	$Na_{52}Ca_{36}K_{21}(SO_4)_{26}(Si_{90}Al_{90}O_{360})Cl_3(H_2O)_6$	P3	745	8.150	6071.552	0.854	2008	246253
Bianchite	$Zn(SO_4)(H_2O)_6$	C12/C1	48	3.668	176.078	0.657	1979	41708
Bicchulite	$Ca_2(Al_2SiO_6)(OH)_2$	I4-3M	26	1.834	47.682	0.390	1977	159333
Bideauxite	$Pb_2AgCl_3F(OH)$	FD3-MZ	32	1.906	60.980	0.381	1999	87757
Bieberite	$(Co_{0.54}Cu_{0.46})(SO_4)(H_2O)_7$	P21/C	108	4.792	517.528	0.709	2007	156698
Biehlite	$(Sb_{1.84}As_{0.16})(MoO_6)$	C12/C1	18	2.281	41.059	0.547	2000	411408
Bigcreekite	$Ba(Si_2O_5)(H_2O)_4$	PNMA	48	2.918	140.078	0.523	2001	95285
Bijvoetite-(Y)	$(((Y_{4.22}Nd_{3.78})(H_2O)_{25})((UO_2)_{16}O_8(OH)_8(CO_3)_{16}))(H_2O)_{14}$	B1211	350	7.451	2607.924	0.882	2000	89853
Bikitaite 1A	$Li_2(Al_2Si_4O_{12})(H_2O)_2$	P1	26	4.700	122.211	1.000	1999	88917
Bikitaite 1M	$Li(AlSi_2O_6)H_2O$	P1211	22	3.459	76.107	0.776	1974	6250
Billietite	$Ba((UO_2)_6O_4(OH)_6)(H_2O)_8$	PBN21	148	5.209	770.999	0.723	2006	156226
Billingsleyite	$(Ag_{0.979}Cu_{0.021})Ag_6(As_{0.886}Sb_{0.114})S_6$	P213	56	2.788	156.153	0.480	2010	167009
Bindheimite	$Pb_2Sb_2O_7$	FD3-MS	22	1.686	37.088	0.378	1955	27120
Biotite 1M	$(K_{0.96}Na_{0.02})(Fe_{0.58}Mg_{0.23}Mn_{0.05})(Fe_{0.46}Al_{0.315}Mg_{0.155}Ti_{0.07})_2((Si_{2.77}Al_{1.18}Fe_{0.05})O_{10.38})(OH)_{1.56}F_{0.06}$	C12/M1	20	2.822	56.439	0.653	2008	161236
Biotite 2M1	$(K_{0.94}Na_{0.01})(Fe_{0.59}Mg_{0.13}Mn_{0.07})(Fe_{0.390}Al_{0.255}Mg_{0.290}Ti_{0.065})_2((Si_{2.78}Al_{1.07}Fe_{0.15})O_{10.1})(OH)_{1.9}$	C12/C1	40	3.422	136.877	0.643	2008	161234
Biotite 6A	$KMg_3(AlSi_3O_{10})(OH)F$	P-1	120	5.924	710.827	0.858	1939	24167

Biphosphammite	$(K_{0.78}(NH_4)_{0.22})(H_2PO_4)$	I4-2D	12	1.252	15.020	0.349	1991	71311
Biraite-(Ce)	$Ce_2(Fe_{0.79}Mg_{0.21})(CO_3)(Si_2O_7)$	P21/C	64	4.000	256.000	0.667	2005	155054
Birchite	$Cd_2Cu_2(PO_4)_2(SO_4)(H_2O)_5$	PNMA	88	3.641	320.430	0.564	2008	160403
Biringuccite	$Na_4(B_{10}O_{16}(OH)_2)(H_2O)_2$	P21/C	160	5.322	851.508	0.727	1974	6168
Birnessite	$K_{0.296}Mn_{0.926}O_2(H_2O)_{0.42}$	R3-MH	9	1.224	11.020	0.386	2005	152288
Birnessite	$K_{0.312}Mn_{0.976}O_2(H_2O)_{0.37}$	C12/M1	4	1.500	6.000	0.750	2005	152294
Birnessite	$K_{0.48}Mn_{1.94}O_{5.18}$	P63/MMC	8	1.500	12.000	0.500	2003	240249
Birnessite (Cs-exchanged)	$Cs_{0.49}(Mn_2O_4)(H_2O)_{3.62}$	C1-	5	1.522	7.610	0.655	2009	163265
Birnessite (K-exchanged)	$K_{0.5}Mn_2O_{4.3}(H_2O)_{0.5}$	C12/M1	4	1.500	6.000	0.750	1996	83236
Birnessite (K-rich)	$K_{0.27}(Mn_{0.96}O_2)(H_2O)_{0.69}$	P63/MMC	8	1.500	12.000	0.500	2004	55411
Birnessite (K-rich)	$K_{0.27}(Mn_{0.98}O_2)(H_2O)_{0.54}$	CCMM	8	1.500	12.000	0.500	2004	55412
Birnessite (K-rich)	$K_{0.27}(Mn_{0.96}O_2)(H_2O)_{0.69}$	R3-MH	4	1.500	6.000	0.750	2004	55413
Birnessite (K-rich)	$K_{.46}Mn_{1.54}Mn_{.46}O_4(H_2O)_{1.6}$	C12/M1	5	1.522	7.610	0.655	1990	68918
Birnessite (Na-rich)	$Na_{0.58}Mn_2O_4(H_2O)_{1.5}$	C1-	4	1.500	6.000	0.750	2002	97199
Birnessite 2H. potassic	$K_{0.314}(Mn_{0.985}O_2)$	CCMM	8	1.500	12.000	0.500	2007	156081
Birnessite 2H. potassic	$K_{0.46}(Mn_2O_4)(H_2O)_{1.55}$	C1-	4	1.500	6.000	0.750	2007	156188
Birnessite. acidic	$H_{0.06}(K_{0.18}(H_2O)_{0.54})(Mn_{0.08}(H_2O)_{0.24})Mn_{0.88}O_2$	P1	5	2.322	11.610	1.000	2006	156176
Bischofite	$MgCl_2(H_2O)_6$	C12/M1	21	2.869	60.239	0.653	1985	47161
Bismite	Bi_2O_3	P21/C	20	2.322	46.439	0.537	1970	15072
Bismoclite	BiOCl	P4/NMMZ	6	1.585	9.510	0.613	1993	74502
Bismuth	Bi	R3-MH	2	0.000	0.000	0.000	1969	64705
Bismuthinite	Bi_2S_3	PNMA	20	2.322	46.439	0.537	2005	153952
Bismutite	$Bi_2(CO_3)O_2$	IMM2	8	2.750	22.000	0.917	2002	94740

Bismutite	$Bi_2(CO_3)O_2$	PNA21	64	4.000	256.000	0.667	1988	202767
Bismutocolumbite	$Bi(Nb_{0.79}Ta_{0.21})O_4$	PNNA	24	1.918	46.039	0.418	2002	95873
Bismutocolumbite	$Bi(Nb_{0.79}Ta_{0.21})O_4$	PN21A	24	2.585	62.039	0.564	2002	95874
Bismutoferrite	$BiFe_2Si_2O_8(OH)$	C1M1	14	3.093	43.303	0.812	1977	200069
Bismutotantalite	$(Bi_{0.96}Sb_{0.04})(Ta_{0.84}Nb_{0.16})O_4$	PCNN	24	1.918	46.039	0.418	2001	92796
Bitikleite-(Sn Al)	$Ca_3(Sb_{1.362}Ti_{0.638})(Al_{1.614}Fe_{1.386})O_{12}$	IA3-D	80	1.595	127.637	0.252	2010	168007
Bityite 2M1	$CaLi_{0.5}Al_2(Be_{0.58}Al_{1.68}Si_{1.74})O_{10}(OH)_2H_{.34}$	C1C1	40	4.322	172.877	0.812	1983	31193
Bityite 2M1	$CaLi_{0.5}Al_2((Be_{0.58}Al_{1.68}Si_{1.74})O_{10})(OH)_2H_{.34}$	C12/C1	40	3.422	136.877	0.643	1983	64834
Bixbyite C	Mn_2O_3	IA3-	40	1.295	51.818	0.243	1971	9091
Bixbyite O	Mn_2O_3	PBCA	80	3.422	273.754	0.541	1971	9090
Bjarebyite	$(Ba_{0.9}Sr_{0.1})(Mn_{0.9}Fe_{0.9}Mg_{0.2})Al_2(OH)_3(PO_4)_3$	P121/M1	46	3.741	172.084	0.677	1974	6207
Blanfordite	$(Na_{0.65}Ca_{0.35})(Al_{0.02}Fe_{0.52}Mn_{0.09}Mg_{0.37})(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	1986	158737
Blatterite	$Sb_3(Mn_{8.72}Al_{.28})(Mn_{21.4}Mg_{13.6})(BO_3)_{16}O_{32}$	PNNM	286	5.789	1655.723	0.709	1998	76890
Blixite	$Pb_8O_5(OH)_2Cl_4$	C12/C1	76	4.301	326.842	0.688	2006	156655
Bloedite	$Na_2Mg(SO_4)_2(H_2O)_4$	P121/A1	50	3.684	184.193	0.653	2004	151453
Blossite	$Cu_2(V_2O_7)$	FDD2	22	2.550	56.107	0.572	1987	40973
Blythite	$Mn_3Mn_2(SiO_4)_3$	IA3-D	80	1.595	127.637	0.252	1998	86936
Bobfergusonite	$Na_2Mn_2(Mn_{0.89}Ca_{0.11})(Fe_{1.4}Mn_{0.32}Mg_{0.28})(Fe_{0.7}Mg_{0.3})(Al_{0.94}Fe_{0.06})(PO_4)_6$	P121/N1	160	5.347	855.508	0.730	2004	54823
Bobierrite	$Mg_3(PO_4)_2(H_2O)_8$	C12/C1	74	4.291	317.500	0.691	1986	202098
Bobjonesite	$(VO)(SO_4)(H_2O)_3$	P121/N1	64	4.000	256.000	0.667	2003	97313
Bobkingite	$Cu_5Cl_2(OH)_8(H_2O)_2$	C12/M1	23	3.045	70.042	0.673	2002	166773
Bobtraillite	$Na_{6.462}Sr_{5.496}Zr_7(Si_{21}B_3O_{66})(OH)_6(H_2O)_6$	P3-C1	254	4.519	1147.715	0.566	2005	171040

Boehmite	$AlO(OH)$	CMCM	6	1.585	9.510	0.613	2002	59609
Boggildite	$Sr_2Na_2Al_2PO_4F_9$	P21/C	80	4.372	349.754	0.692	1982	201343
Boggsite	$Ca_{9.68}(Al_{19.36}Si_{76.64}O_{192})(H_2O)_{41.25}$	IMMA	192	4.835	928.313	0.637	2004	55231
Bohdanowiczite high	$Ag(BiSe_2)$	R3-MR	4	1.500	6.000	0.750	1959	26518
Bohdanowiczite intermediate	$Ag(BiSe_2)$	P3-M1	12	2.752	33.020	0.768	1959	26519
Boleite	$KPb_{26}Ag_9Cu_{24}Cl_{62}(OH)_{48}$	PM3-M	194	3.587	695.845	0.472	2000	166507
Boltwoodite	$(K_{0.56}Na_{0.42})((UO_2)(SiO_3OH))(H_2O)_{1.48}$	P121/M1	22	3.096	68.107	0.694	1998	86631
Bonaccordite	$FeNi_2O_2(BO_3)$	PBAM	36	3.281	118.117	0.635	1991	71193
Bonattite	$Cu(SO_4)(H_2O)_3$	C1C1	30	3.907	117.207	0.796	1968	34679
Bonshtedtite	$Na_3Fe(PO_4)(CO_3)$	P1121/M	26	3.393	88.211	0.722	1984	77053
Boracite	$Mg_3(B_7O_{13}Cl)$	PCA21	96	4.585	440.156	0.696	1973	9290
Boracite	$Co_3(B_7O_{13}I)$	F4-3C	48	2.063	99.020	0.369	1980	200817
Boracite-(Zn)	$Zn_3(B_7O_{13})Cl$	R3CH	48	3.198	153.510	0.573	1991	55444
Boralsilite	$Al_{16.24}O_{10}(BO_3)_{3.76}(BO_4)_2(Si_2O_7)$	C12/M1	61	4.619	281.775	0.779	2008	159686
Boratecancrinite	$(Na_{0.5}Ca_{0.5})_2Na_6(Al_6Si_6O_{24})(BO_3)(H_2O)_2$	P63	60	3.480	208.825	0.589	2006	171505
Borax	$Na_2(B_4O_5(OH)_4)(H_2O)_8$	C12/C1	86	4.496	386.659	0.700	2008	241120
Borcarite	$Ca_4Mg(B_4O_6(OH)_6)(CO_3)_2$	C12/M1	35	3.586	125.525	0.699	1995	80438
Bornemanite	$(Na_{6.07}Mn_{0.23}Ca_{0.06})(Ba_{0.73}K_{0.13}Sr_{0.06})(Ti_{2.05}Nb_{0.80}Zr_{0.02}Ta_{0.01}Fe_{0.03}Al_{0.02}Mn_{0.06}Mg_{0.01})(Si_2O_7)_2(PO_4)O_2(F_{1.27}(OH)_{0.73})$	P-1	76	5.248	398.842	0.840	2007	162811
Bornhardtite	Co_3Se_4	FD3-MZ	14	1.379	19.303	0.362	1955	42538
Bornite	Cu_2FeS_2	F4-3M	20	2.346	46.929	0.543	2005	171910
Bornite	Cu_5FeS_4	FM3-M	40	1.533	61.328	0.288	1978	200424

Bornite high	$(Cu_5FeS_4)_{0.5}$	R3MR	5	2.322	11.610	1.000	1964	16552
Borodaevite	$Ag_{4.67}Pb_{0.5}Bi_{7.33}Sb_{1.5}S_{16}$	C12/M1	30	3.974	119.207	0.810	1997	53639
Boromullite	$Al_9BSi_2O_{19}$	CMC21	32	3.625	116.000	0.725	2008	161811
Boromuscovite 1M	$K_{0.8}Al_{1.64}(BSi_3O_{10})(OH)_2$	C12/M1	19	2.669	50.711	0.628	1995	81611
Boromuscovite 2M1	$K_{0.82}Al_{1.92}(BSi_3O_{10})(OH)_2$	C12/C1	38	3.301	125.421	0.629	1995	81610
Boropollucite	$Cs_{0.814}B_{1.092}(Si_{1.977}O_6)$	IA3-D	104	1.776	184.689	0.265	2004	413224
Botallackite	$Cu_2Cl(OH)_3$	P121/M1	18	2.725	49.059	0.654	2005	153707
Botryogen	$FeZn(SO_4)_2OH(H_2O)_7$	P121/N1	80	4.372	349.754	0.692	1968	34682
Bottinoite	$(Ni(H_2O)_6)(Sb(OH)_6)_2$	P3	126	5.468	688.942	0.784	1996	82742
Bouazzerite	$Bi_6(Mg_{10.76}Co_{0.24})Fe_{14}(AsO_4)_{18}O_{12}(OH)_4(H_2O)_{86}$	P121/N1	446	6.805	3035.201	0.773	2007	158169
Boulangerite	$Pb_{4.82}Sb_{4.11}S_{11}$	PBNM	80	4.322	345.754	0.684	1991	41279
Boulangerite	$Pb_5Sb_4S_{11}$	P121/A1	160	5.322	851.508	0.727	1989	68663
Bournonite	$PbCuSbS_3$	PN21M	24	3.085	74.039	0.673	1970	14303
Boussingaultite	$(NH_4)_2(Mg(H_2O)_6)(SO_4)_2$	P121/A1	78	4.311	336.261	0.686	1988	63025
Bowieite	Rh_2S_3	PBCN	20	1.522	30.439	0.352	1967	15344
Bracewellite	$CrO(OH)$	PBNM	12	1.585	19.020	0.442	1976	56285
Brackebuschite	$(Pb_{1.8}Zn_{0.2})(Mn_{0.15}Al_{0.1}Fe_{0.75})(VO_4)_2(OH)$	P121/M1	28	3.522	98.606	0.733	2001	92997
Bradaczekite	$NaCu_4(AsO_4)_3$	C12/C1	40	3.522	140.877	0.662	2001	94549
Braggite	$Pt_5Pd_2NiS_8$	P42/M	16	1.750	28.000	0.438	1973	2585
Braithwaiteite	$NaCu_5(Sb_{0.96}Ti_{1.04})O_2(AsO_4)_4(AsO_3(OH))_2(H_2O)_8$	P-1	62	5.051	313.160	0.848	2008	161327
Braitschite	$Ce_{2.08}Ca_{6.15}Na_{0.85}(B_6O_7(OH)_3(O_{2.5}(OH)_{0.5}))_4(H_2O)$	P6/M	75	3.144	235.799	0.505	2011	180087
Brandholzite	$(Mg(H_2O)_6)(Sb(OH)_6)_2$	P3	270	6.527	1762.310	0.808	2000	89819
Brandtite	$Ca_2Mn(AsO_4)_2(H_2O)_2$	P21/C	38	3.301	125.421	0.629	2006	156223

Brannerite	$(U_{0.74}Ca_{0.26})Ti_2O_6$	C12/M1	9	2.281	20.529	0.720	2002	59579
Brannockite	$KSn_2Li_3Si_{12}O_{30}$	P6/MCC	96	2.432	233.510	0.369	1988	202623
Brassite	$Mg(AsO_3(OH))(H_2O)_4$	PBCA	80	3.322	265.754	0.525	1976	78
Braunite	$Mn_7O_8(SiO_4)$	I41/ACDZ	80	2.822	225.754	0.446	1998	66976
Braunite 2Q	$CaMn_{11.62}Fe_{2.38}SiO_{24}$	I41/ACDZ	160	3.572	571.508	0.488	1980	100349
Bravoite	$(Ni_{.5}Fe_{.5})S_2$	PA3-	12	0.918	11.020	0.256	1969	40329
Brazilianite	$NaAl_3(PO_4)_2(OH)_4$	P121/N1	88	4.459	392.430	0.690	1974	2086
Bredigite	$Ca_{13.5}Ba_{.3}Mg_{1.8}Mn_{.4}Si_9O_{32}$	P2NN	112	4.879	546.424	0.717	1976	9828
Breithauptite	NiSb	P63/MMC	4	1.000	4.000	0.500	1986	646431
Brendelite	$(BiPb)FeO_2(OH)(PO_4)$	C12/M1	12	2.752	33.020	0.768	1998	54148
Brenkite	$Ca_2F_2(CO_3)$	PBCN	32	2.250	72.000	0.450	1980	100607
Brewsterite	$(Ba_{0.5}K_{0.02}Sr_{1.48})(Al_4Si_{12}O_{32})(H_2O)_{10}$	P121/M1	60	4.107	246.413	0.695	1977	1136
Brewsterite	$(Sr_{0.95}Ba_{0.05})(Al_2Si_6O_{16})(H_2O)_5$	P121/M1	94	4.704	442.131	0.718	1985	48183
Brezinaite	Cr_3S_4	I12/M1	7	1.950	13.651	0.695	1957	16722
Brianite	$Na_2CaMg(PO_4)_2$	P21/C	56	3.807	213.212	0.656	1998	408373
Brianroulstonite	$Ca_3(B_5O_6(OH)_6)(OH)Cl_2(H_2O)_8$	P1A1	62	4.954	307.160	0.832	1997	76661
Briartite	Cu_2FeGeS_4	I4-2M	8	1.750	14.000	0.583	1979	47165
Britholite	$(Ca_{4.79}(Y_{0.250}La_{1.134}Ce_{2.185}Pr_{0.218}Nd_{0.583})Th_{0.72}U_{0.12})((Si_{5.57}P_{0.25}B_{0.16})O_{24})(OH)_{0.23}F_{1.77}$	P63	42	3.034	127.419	0.563	2001	92965
Britholite-(Ce)	$(Ca_{2.15}Ce_{2.85})(SiO_4)_3(F_{0.5}(OH)_{0.5})$	P1121	42	4.392	184.477	0.815	1993	67946
Britholite-(Gd)	$(Na_{1.19}Gd_{8.81})(SiO_4)_6(F_{.38}O_{1.62})$	P1121	42	4.392	184.477	0.815	1992	67684
Britholite-(La)	$(Na_{1.45}La_{8.55})(SiO_4)_6(F_{.9}O_{1.1})$	P1121	42	4.392	184.477	0.815	1992	67683
Britholite-(Sr.La)	$Sr_8La_2(PO_4)_4(SiO_4)_2O$	P63/M	42	2.653	111.419	0.492	2009	168210

Britholite-(Y)	$(Y_{4.48}Ca_{0.2}Lu_{0.32})(SiO_4)_3(F_{0.5}(OH)_{0.5})$	P1121	42	4.392	184.477	0.815	1993	67948
Britvinite	$Pb_{7.1}Mg_{4.5}(Si_5O_{14})(BO_3)_{1.7}(CO_3)(SiO_4)_{0.3}(OH)_{5.7}F$	P-1	100	5.664	566.386	0.852	2008	250470
Brizziite	$Na(SbO_3)$	R3-H	10	1.371	13.710	0.413	1994	78416
Brochantite 2M1	$Cu_4(SO_4)(OH)_6$	P121/A1	60	3.907	234.413	0.661	2003	97703
Brochantite 2M2	$Cu_4(SO_4)(OH)_6$	P21/N11	60	3.907	234.413	0.661	2003	97704
Brochantite MDO1	$Cu_4(SO_4)(OH)_6$	P121/A1	48	3.585	172.078	0.642	2010	168540
Bromapatite	$Ca_{4.92}(P_{2.9}O_{11.96})Br_{1.01}$	P63/M	42	2.653	111.419	0.492	1981	26328
Bromargyrite	AgBr	FM3-M	2	1.000	2.000	1.000	1987	65062
Bromcarnallite	$KMgBr_{1.5}Cl_{1.5}(H_2O)_6$	P4/NS	44	2.914	128.215	0.534	1939	30220
Bromellite	BeO	P63MC	4	1.000	4.000	0.500	2003	391224
Bromoapatite (Cd-exchanged)	$Cd_5(PO_4)_3Br$	R3-H	42	3.034	127.419	0.563	2000	411244
Brontesite	$(NH_4)_{2.9}Pb_{1.09}(Cl_{4.86}Br_{0.24})$	PNMA	92	3.741	344.168	0.573	2009	166092
Brookite	TiO_2	PBCA	24	1.585	38.039	0.346	2006	154606
Brownmillerite	$Ca_2(FeAl)O_5$	IBM2	18	2.503	45.059	0.600	1971	9197
Brownmillerite	$Ca_2(AlFeO_5)$	PCMN	36	2.503	90.117	0.484	1959	27112
Brucite	$Mg(OH)_2$	P3-M1	5	1.522	7.610	0.655	1997	77086
Brueggenite	$Ca(IO_3)_2(H_2O)$	P21/C	48	3.585	172.078	0.642	1992	36635
Brunogeierite	$Fe_2(GeO_4)$	FD3-MZ	14	1.379	19.303	0.362	2001	93973
Brushite	$Ca(HPO_4)(H_2O)_2$	I1A1	26	3.700	96.211	0.787	1971	16132
Buchwaldite	$NaCaPO_4$	PN21A	16	3.000	48.000	0.750	1983	35498
Buckhornite	$(Pb_2BiS_3)(AuTe_2)$	PMMNZ	18	2.503	45.059	0.600	2000	92520
Buddingtonite	$(ND_4)(AlSi_3O_8)$	C12/M1	42	3.535	148.477	0.656	2004	171122

Buergerite	$(Na_{0.88}Ca_{0.04})(Mg_{0.06}Fe_{2.03}Al_{0.91})(Al_{5.5}Fe_{0.5})(BO_3)_3((Si_{5.83}Ti_{0.07}B_{0.1})O_{18})(O_{2.42}(OH)_{0.58})((OH)_{0.26}F_{0.74})$	R3MH	50	3.522	176.115	0.624	1993	74183
Buetschliite	$K_2Ca(CO_3)_2$	R3-MH	11	1.686	18.544	0.487	1984	29442
Bukovite	$Tl(Cu_{1.55}Fe_{0.45})Se_2$	I4/MMM	5	1.522	7.610	0.655	1980	40327
Bultfonteinite	$Ca_4(SiO_3)_2(OH)_4(H_2O)_2$	P-1	36	4.170	150.117	0.807	1963	45301
Bunsenite	NiO	FM3-M	2	1.000	2.000	1.000	1979	9866
Burangaite	$Na(Fe_{0.65}Mg_{0.33}Mn_{0.02})Al_5(PO_4)_4(OH)_6(H_2O)_2$	C12/C1	90	4.559	410.267	0.702	1997	84627
Burbankite	$(Na_{2.22}Ca_{0.65}Y_{0.03})(Sr_{2.10}Ba_{0.33}Ce_{0.23}Ca_{0.15}La_{0.12}Nd_{0.05}Pr_{0.02})(CO_3)_5$	P63MC	52	3.007	156.345	0.527	2000	91533
Burgessite	$(Co_2(H_2O)_4)(AsO_3(OH))_2(H_2O)$	P121/N1	44	3.459	152.215	0.634	2009	163141
Burkeite	$Na_4(SO_4)_{1.51}(CO_3)_{.49}$	PMNMZ	28	3.236	90.606	0.673	1988	70121
Burnsite	$KCdCu_7O_2(SeO_3)_2Cl_9$	P63/MMC	56	2.833	158.643	0.488	2002	96615
Burpalite	$(Na_{1.55}Ca_{0.45})CaZrSi_2O_7(F_{1.55}O_{0.45})$	P121/A1	60	3.907	234.413	0.661	1990	89269
Bursaite	$Pb_{2.82}Bi_{2.12}S_6$	BBMM	22	2.732	60.107	0.613	1968	24470
Burtite	$CaSn(OD)_{5.45}(OH)_{.55}$	PN3-Z	32	1.061	33.961	0.212	1968	27766
Bushmakinite	$Pb_2(Al_{0.74}Cu_{0.26})((V_{0.52}Cr_{0.26}P_{0.22})O_4)(PO_4)(OH)$	P121/M1	28	3.522	98.606	0.733	2002	95385
Bussenite	$Na(Ba_{1.27}Sr_{0.32}Ca_{0.21}K_{0.2})(Na_{0.95}Fe_{0.675}Mn_{0.375})((Ti_{0.95}Nb_{0.05})Si_2O_7)O(CO_3)(OH)F(H_2O)$	P-1	48	4.668	224.078	0.836	2002	95434
Bussyite-(Ce)	$Ce_{1.88}(Ca_{0.76}La_{0.24})(Na_3(H_2O)_{2.5}Ca_{0.544}K_{0.015})(Mn_{0.485}Na_{0.402}Mg_{0.012})(Si_{8.82}Be_{5.02})O_{30}(F_{2.67}(OH)_{1.33})$	C12/C1	124	5.019	622.320	0.722	2009	163138
Bustamite	$Ca_{0.51}Mn_{0.49}(SiO_3)$	I1-	30	3.974	119.207	0.810	1978	200331
Butlerite	$Fe(SO_4)(OH)(H_2O)_2$	P121/M1	18	2.725	49.059	0.654	1971	15199
Buttgenbachite	$Cu_{36}Cl_{7.9}(NO_3)_{1.1}(OH)_{63}(H_2O)_4$	P63/MMC	124	3.356	416.125	0.483	2003	97934
Byelorussite-(Ce)	$NaMnBa_2Ce_2(TiO)_2(Si_4O_{12})_2F_{0.7}(OH)_{0.3}(H_2O)_{0.7}$	AMA2	88	4.641	408.430	0.719	2004	250218

Bystrite	$Ca_{0.94}Na_{6.4}((Al_{5.88}Si_{6.12})O_{24})(S_3)_{1.18}(Cl_{0.48}(H_2O)_{0.48})$	P31C	102	4.181	426.431	0.627	1991	39458
Bystroemite	$MgSb_2O_6$	P42/MNM	18	1.837	33.059	0.440	1942	40345
Bytownite	$Ca_{.85}Na_{.14}Al_{1.94}Si_{2.06}O_8$	P-1	104	5.700	592.846	0.851	1984	30932
Cabalzarite	$Ca(Mg_{0.784}Al_{0.816}Fe_{0.354}Mn_{0.046})(AsO_4)_2((OH)(H_2O))$	C12/M1	19	3.090	58.711	0.727	2000	89713
Cacoxenite	$(Al_4Fe_{21})(PO_4)_{17}O_6(OH)_{12}(H_2O)_{24}$	P63/M	304	5.057	1537.391	0.613	1983	30834
Cadmium	Cd	P63/MMC	2	0.000	0.000	0.000	1956	64702
Cadmoselite	CdSe	P63MC	4	1.000	4.000	0.500	1984	60630
Caesiumalum-(Al)	$CsAl(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	1981	201215
Caesiumalum-(Co)	$CsCo(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	1981	201214
Caesiumalum-(Cr)	$CsCr(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	1981	201211
Caesiumalum-(Fe)	$CsFe(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	1981	201213
Caesiumalum-(Ga)	$CsGa(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	1981	201216
Caesiumalum-(In)	$CsIn(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	1981	201217
Caesiumalum-(Mn)	$CsMn(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	1981	201212
Caesiumalum-(V)	$CsV(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	1981	201210
Cafarsite	$Ca_{5.92}Ti_3Fe_{2.97}Mn_{1.7}As_{11.18}H_4O_{40.68}$	PN3-Z	290	3.842	1114.234	0.470	1977	200144
Cafetite	$Ca(Ti_2O_5)(H_2O)$	P121/N1	88	4.459	392.430	0.690	2003	98137
Cahnite	$Ca_2BAsO_4(OH)_4$	I4-	12	2.252	27.020	0.628	1961	27527
Calaverite	$AuTe_2$	C12/M1	3	0.918	2.755	0.579	1993	72439
Calaverite	$AuTe_2$	P3-M1	3	0.918	2.755	0.579	1993	72441
Calciborite	$Ca(B_2O_4)$	PCCN	56	2.807	157.212	0.483	1970	20097
Calcio-olivine	$Ca_2(SiO_4)$	PBNM	28	2.522	70.606	0.525	2008	417503
Calcioancylite-(Nd)	$(Ca_{1.26}Ce_{2.74})(CO_3)_4(OH)_3(H_2O)$	PM11	24	4.252	102.039	0.927	1990	66256

Calcioandyrobertsite 2O	$KCaCu_5(AsO_4)_4(AsO_2(OH)_2)(H_2O)_2$	PNMA	136	4.323	587.895	0.610	2004	55438
Calcioaravaipaite	$PbCa_2AlF_9$	P-1	26	3.700	96.211	0.787	2011	180336
Calciobetafite	$Ca_{1.37}Na_{0.150}Ce_{.32}Th_{.08}U_{.08}Ti_{1.07}Nb_{.89}Ta_{.038}O_6O_{.5}F_{.5}H_{.125}$	FD3-MZ	22	1.686	37.088	0.378	1983	31196
Calcioburbankite	$(Na_{2.23}Ca_{0.49}Ce_{0.09})(Ca_{0.95}Ce_{0.69}Sr_{0.55}Ba_{0.50}Na_{0.44})(CO_3)_5$	P63MC	52	3.007	156.345	0.527	2001	94059
Calcioferrite beta' (Cd-bearing)	$Ca_{0.80}Cd_{0.88}Fe_{10.17}O_{16.85}(H_2O)_{1.50}$	R3-MH	35	3.321	116.241	0.647	2000	92247
Calcioferrite beta' (Cd-bearing)	$CaCd_{0.91}Fe_{10.09}O_{17}(H_2O)_{0.99}$	P63/MMC	64	3.147	201.432	0.525	2000	92248
Calciohilairite	$(Ca_{0.33}Na_{0.33})(ZrSi_3O_9)((H_2O)_2(H_3O))$	R32H	17	2.336	39.712	0.572	2002	97109
Calciotantite	$Ca(Ta_4O_{11})$	P6322	32	2.311	73.961	0.462	1988	108808
Calciovolborthite	$(Ca_{0.924}Pb_{0.076})Cu(As_{0.41}V_{0.59}O_4)(OH)$	P212121	40	3.322	132.877	0.624	1989	68662
Calcite	$CaCO_3$	R3-CH	10	1.371	13.710	0.413	1957	16710
Calclacite	$CaCl((CH_3)CO_2)(H_2O)_5$	P21/C	44	3.459	152.215	0.634	1970	76894
Calcybeborosilite	$(Y_{0.42}Ce_{0.13}Ca_{0.45})(Fe_{0.125}Mn_{0.025})(B_{0.5}Be_{0.5})(SiO_4)O_{0.35}(OH)_{0.65}$	P121/A1	34	3.146	106.974	0.618	1996	39944
Calderite	$Mn_3Fe_2(SiO_4)_3$	IA3-D	80	1.595	127.637	0.252	1996	77433
Calderonite	$(Pb_{1.924}Ba_{0.018}Ca_{0.007})(Fe_{0.965}Cu_{0.034}Zn_{0.009}Al_{0.004})((V_{1.836}Si_{0.085}As_{0.016}P_{0.003})O_{7.506}(OH)_{1.494})$	P121/M1	28	3.522	98.606	0.733	2003	98790
Caledonite	$Pb_5Cu_2(SO_4)_3(CO_3)(OH)_6$	PMN21	72	4.337	312.235	0.703	2009	164674
Callaghanite	$Cu_2Mg_2(CO_3)(OH)_6(H_2O)_2$	C12/C1	32	3.125	100.000	0.625	1973	28268
Calomel	Hg_2Cl_2	I4/MMM	4	1.000	4.000	0.500	1989	65441
Calzirtite O	$Ca_2Zr_5Ti_2O_{16}$	PBCA	200	4.644	928.771	0.608	1997	85193

Camaraite	$(Ba_{2.61}K_{0.34})(Na_{0.86}Ca_{0.14})(Ti_{3.72}Nb_{0.22}Al_{0.05})(Fe_{5.02}Mn_{2.53}Mg_{0.10}Zr_{0.05}Zn_{0.03}Ca_{0.05})(Si_2O_7)_4O_4((OH)_{3.89}F_{3.11})$	C1-	127	6.012	763.563	0.860	2009	168304
Caminite	$Mg_3(SO_4)_2(OH)_2$	I41/AMDZ	24	2.085	50.039	0.455	1989	66174
Campigliaite	$Cu_4Mn(SO_4)_2(OH)_6(H_2O)_4$	C121	78	5.285	412.261	0.841	1982	30797
Canaphite	$CaNa_2(P_2O_7)(H_2O)_4$	P1C1	32	4.000	128.000	0.800	1988	202523
Canasite	$Na_4Ca_2(Na_2Ca_2)(Ca_{1.7}Mn_{0.3})(Ca_{3.5}Mn_{0.5})K_6(Si_{12}O_{30})_2F_4(F_{1.5}(OH)_{0.5})(OH)_2(H_2O)_2$	C1M1	58	5.306	307.763	0.906	2003	98172
Cancrinite	$Na_8(Al_6Si_6O_{24})(OH)_{2.04}(H_2O)_{2.66}$	P63	48	3.198	153.510	0.573	1991	63719
Cancrinite	$Na_8(Al_6Si_6O_{24})(S_2O_3)(H_2O)_2$	P3	55	4.398	241.897	0.761	1995	80298
Cancrisilite	$Na_{7.2}(Al_{4.8}Si_{7.2}O_{24})(CO_3)_{1.2}(H_2O)_3$	P63MC	56	3.020	169.134	0.520	1991	56294
Cancrisilite	$(Na_{7.71}Ca_{0.43}(CO_3)_{1.35})(Si_6Al_6O_{24})$	P3	53	4.292	227.502	0.749	2007	245884
Canfieldite	$Ag_8(SnS_4)S_2$	PNA21	60	3.907	234.413	0.661	1978	42533
Cannizzarite	$Pb_{46}Bi_{54}S_{127}$	$P2_1/m$	454	7.827	3553.253	0.887	1979	49716
Cannizzarite 7H:12Q	$Pb_{48}Bi_{56}S_{124.8}Se_{7.2}$	$P2_1/m$	236	6.883	1624.304	0.873	2010	169960
Cannonite	$(Bi_2O(OH)_2)SO_4$	P21/C	8	1.000	8.000	0.333	1982	35008
Capgaronnite	$HgAg(Cl_{.82}Br_{.18})S$	P21212	16	2.000	32.000	0.500	1992	66329
Cappelenite-(Y)	$BaY_6(Si_3B_6O_{24})F_2$	P3	42	3.921	164.664	0.727	1984	30674
Caracolite high	$Na_3Pb_2(SO_4)_3Cl$	P63/M	42	2.653	111.419	0.492	1967	24459
Caracolite low	$Na_3Pb_2(SO_4)_3Cl$	P1121/M	84	5.011	420.955	0.784	1969	24455
Caratiite	$K_4Cu_4O_2(SO_4)_4Cu_{.5}Cl$	I4	32	3.188	102.000	0.637	1984	64684
Carboborite	$MgCa_2(CO_3)_2(B(OH)_4)_2(H_2O)_4$	P121/N1	82	4.382	359.319	0.689	1981	64685
Carbobystrite	$(Na_{7.5}K_{0.36})((Al_6Si_6)O_{24})(CO_3)(H_2O)_{3.48}$	P31C	108	4.258	459.862	0.630	2010	169965
Carbocernaite	$SrCa(CO_3)_2$	PMC21	20	2.922	58.439	0.676	1982	201461
Carbocernaite-(La)	$NaLa(CO_3)_2$	PB21M	20	2.922	58.439	0.676	1967	20482

Carbonate-apatite	$(Ca_{3.13}Na_{0.53})(Ca_{4.66}Na_{0.79})(PO_4)_{4.3}(CO_3)_{1.7}(OH)_{0.74}(H_2O)_{1.3}$	P63/M	42	2.653	111.419	0.492	2004	54797
Carbonate-apatite	$Ca_{9.55}((PO_4)_{5.52}(CO_3)_{0.48})(CO_3)_{1.157}$	P6-	50	3.792	189.624	0.672	2000	91311
Carletonite	$K_{.882}Na_{3.65}Ca_{3.76}Si_{7.75}Al_{.11}O_{18}(CO_3)_4F_{.41}(OH)_{.74}(H_2O)_{.77}H_{1.75}$	P4/MBM	216	4.273	923.056	0.551	1972	12100
Carlfrieseite	$Ca(TeO)_2(TeO_6)$	C12/C1	24	2.752	66.039	0.600	1978	100661
Carlinite	Tl_2S	R3H	27	3.346	90.343	0.704	2002	59735
Carlosruizite	$K_6(K_{1.4}Na_{2.6})Na_6Mg_{10}(Se_{.6}S_{.4}O_4)_{12}(IO_3)_{12}(H_2O)_{12}$	P3-C1	146	3.890	568.009	0.541	1994	77417
Carlsbergite	CrN	FM3-M	2	1.000	2.000	1.000	1971	626341
Carmichaelite	$(Ti_{0.621}Cr_{0.19}Fe_{0.087}Mg_{0.055}Al_{0.033}V_{0.011}Nb_{0.0045})O_{1.491}(OH)_{0.509}$	P21/C	70	4.158	291.050	0.678	2000	89831
Carnegieitehigh (Na-rich)	$Na_8Al_4Si_4O_{18}$	F4-3M	29	1.064	30.842	0.219	1947	16913
Carnotite (anhydrous)	$K_2(UO_2)_2(VO_4)_2$	P121/A1	36	3.170	114.117	0.613	1965	64692
Carobbiite	KF	FM3-M	2	1.000	2.000	1.000	1929	64686
Caroite (Li. Ti-bearing)	$Li_{0.5}Mg_{0.25}Ti_{2.25}O_5$	BBMM	16	2.250	36.000	0.563	1986	62359
Carpathite	$C_{24}H_{12}$	P121/A1	72	4.170	300.235	0.676	2007	157701
Carpholite	$K_{0.65}(Mn_{1.35}Li_{0.67})Al_4Si_4O_{12}(OH)_4F_4$	CCCAZ	70	3.358	235.050	0.548	1989	203084
Carraraite	$Ca_3Ge(OH)_6(SO_4)_{1.08}(CO_3)_{0.92}(H_2O)_{12}$	P63/M	124	3.755	465.635	0.540	2001	92691
Carrollite	Co_2CuS_4	FD3-MZ	14	1.379	19.303	0.362	1974	52943
Caryinite	$NaCa_{1.29}Pb_{.38}Mg_{.56}Mn_{1.77}(AsO_4)_3$	I12/A1	42	3.535	148.477	0.656	1993	76609
Cascandite	$CaScSi_3O_8(OH)$	C1-	30	3.907	117.207	0.796	1982	17047
Cassagnaite	$(Ca_{3.52}Mn_{0.48})(Fe_{2.04}Mn_{0.96}Al)(V_{0.66}Mg_{0.84}Al_{0.5})(SiO_4)_2(Si_3O_{10})(OH)_4(O_{1.16}(OH)_{2.84})$	CMCM	46	3.393	156.084	0.614	2008	159737
Cassiterite	SnO_2	P42/MNM	6	0.918	5.510	0.355	1971	9163

Caswellsilverite	$Na(CrS_2)$	R3-MH	4	1.500	6.000	0.750	1942	660322
Catamarcaite	Cu_6GeWS_8	P63MC	32	2.811	89.961	0.562	2006	156238
Catapleiite	$Na_2ZrSi_3O_9(H_2O)_2$	B112/B	72	4.337	312.235	0.703	1981	20267
Catapleiite	$(K_{0.49}Ca_{0.42}Na_{0.26})ZrSi_3O_9((H_2O)_{0.80}(H_3O)_{0.20})_2$	P63/MMC	36	2.405	86.568	0.465	2007	416753
Catapleiite. calcian	$CaZr(Si_3O_9)(H_2O)_2$	PBNN	84	3.630	304.955	0.568	2004	54809
Cattierite	CoS_2	PA3-	12	0.918	11.020	0.256	1982	624855
Cavansite	$Ca(VO)(Si_4O_{10})(H_2O)_4$	PCMN	116	4.099	475.526	0.598	1993	39688
Caysichite-(Y)	$Y_4(Ca_{.75}La_{.25})_4(OH)(H_2O)_5(Si_8O_{20})(CO_3)_6(H_2O)_2$	CCM21	68	4.264	289.947	0.700	1978	200418
Cebaite-(Ce)	$Ba_3Ce_2(CO_3)_5F_2$	C12/M1	54	4.422	238.764	0.768	1995	81121
Cebaite-(La)	$Ba_3La_2(CO_3)_5F_2$	C12/M1	54	4.422	238.764	0.768	1993	72445
Cechite	$Pb(Fe_{0.8}Mn_{0.2})(VO_4)(OH)$	PNAM	36	2.948	106.117	0.570	1989	43079
Cejkaite	$Na_4(UO_2)(CO_3)_3$	P-1	76	5.274	400.842	0.844	2003	97273
Celadonite	$(K_{0.83}Ca_{0.03}Na_{0.01})(Al_{0.06}Mg_{0.41}Fe_{1.51})((Si_{3.94}Al_{0.06})O_{10}(OH)_2)$	C12/M1	19	2.669	50.711	0.628	2010	166970
Celestine	$Sr(SO_4)$	PBNM	24	2.252	54.039	0.491	1998	92608
Celsian (Ba-deficient)	$Ba_{0.94}(Al_{1.88}Si_{2.12}O_8)$	C12/M1	26	2.931	76.211	0.624	2003	281284
Cementite	Fe_3C	PNMA	16	1.500	24.000	0.375	2009	167344
Cerchiaraite	$Ba_4Mn_4O_3(OH)_3(SiO_3)_4(Si_2O_3(OH)_4)Cl$	I4/MMM	53	3.162	167.580	0.552	2000	91857
Cerianite-(Ce)	CeO_2	FM3-M	3	0.918	2.755	0.579	2004	55284
Cerite-(La)	$(La_{7.1}Ca_{1.9})(Fe_{0.32}Mg_{0.23}Ca_{0.3})Ca_{0.1}(SiO_4)_3(SiO_3((OH)_{0.9}O_{0.1}))_3(SiO_3(OH))_{0.9}(OH)_3$	R3CH	96	4.198	403.020	0.638	2002	95928
Cernyite	$Cu_2(Cd_{0.37}Zn_{0.33}Fe_{0.29})SnS_4$	I4-2M	8	1.750	14.000	0.583	1978	200421
Cerussite	$PbCO_3$	PMCN	20	1.922	38.439	0.445	1974	6178
Cervandonite	$CeFe_3O_2(Si_2O_7)_{0.84}(AsO_3)_{1.16}(OH)_{0.48}$	R3MH	20	3.371	67.419	0.780	2008	160431

Cervantite	$Sb(SbO_4)$	PNA21	24	2.585	62.039	0.564	1977	919
Cesanite	$Ca_{1.31}Na_{4.32}((OH)_{0.94}(SO_4)_3)$	P63/M	42	2.653	111.419	0.492	1984	30875
Cesanite	$Na_7Ca_3(SO_4)_6(OH)(H_2O)_{0.8}$	P6-	43	3.681	158.271	0.678	2002	94639
Cesstibtantite	$Cs_{0.49}(Na_{0.10}Sb_{0.12}Bi_{0.02})_4(Ta_{0.82}Nb_{0.04}Sb_{0.12})_4O_{12}$	FD3-MZ	18	1.224	22.039	0.294	1996	83239
Cetineite	$K_{2.4}Na_{.58}Sb_7O_9S_3(H_2O)_{2.8}$	P63	52	3.237	168.345	0.568	1988	202637
Cetineite	$K_6(Sb_{12}O_{18})(SbSe_3)_2(H_2O)_7$	P63/M	54	3.050	164.686	0.530	2007	416761
Chabazite	$Ca_{1.76}(Al_{3.7}Si_{8.3}O_{24})(H_2O)_{7.6}$	R3-MR	55	3.148	173.142	0.545	1993	39704
Chabourneite	$Tl_8Pb_4Sb_{21}As_{19}S_{68}$	P1	120	6.907	828.827	1.000	1979	100315
Chadwickite	$K_6(HgS_4)$	P63MC	22	2.163	47.578	0.485	1976	266
Chalcanthite (deuterated)	$CuSO_4(D_2O)_5$	P-1	42	4.440	186.477	0.823	1975	10101
Chalcocite	Cu_2S	P63/MMC	8	1.500	12.000	0.500	1981	200989
Chalcocite cubic	Cu_2S	FM3-M	4	1.500	6.000	0.750	2007	159435
Chalcocite low	Cu_2S	P21/C	144	5.170	744.469	0.721	1979	100333
Chalcocite-Q	Cu_2S	P43212	12	0.918	11.020	0.256	1964	16550
Chalcocyanite	$Cu(SO_4)$	PNMA	24	2.252	54.039	0.491	1988	71017
Chalcomenite	$(Cu(H_2O)_2)(SeO_3)$	P212121	44	3.459	152.215	0.634	1992	67672
Chalconatronite	$Na_2(Cu(CO_3)_2)(H_2O)_3$	P121/N1	72	4.170	300.235	0.676	2004	413232
Chalcophanite	$ZnMn_3O_7(H_2O)_3$	R3-H	28	2.449	68.567	0.509	1988	202701
Chalcophyllite	$Cu_9Al(AsO_4)_2(SO_4)_{1.5}(OH)_{12}(H_2O)_{18}$	R3-H	108	4.339	468.617	0.642	1980	100289
Chalcopyrite	$CuFeS_2$	I4-2D	8	1.500	12.000	0.500	2001	94554
Chalcosiderite	$Cu(Al_{0.54}Fe_{5.46})(PO_4)_4(OH)_8(H_2O)_4$	P-1	55	4.800	263.975	0.830	1989	67037
Chalcosite	Cu_2S	P21/C	144	5.170	744.469	0.721	1971	23596
Chalcosite high	Cu_2S	P63/MMC	6	1.585	9.510	0.613	1946	20560

Chalcostibite	$CuSbS_2$	PNMA	16	2.000	32.000	0.500	2005	171051
Chalcothallite	$Tl_{1.785}K_{.215}Cu_{6.35}SbS_4$	I4/MMM	14	2.664	37.303	0.700	1980	100476
Challacolloite	KPb_2Cl_5	P21/C	32	3.000	96.000	0.600	2005	157073
Chambersite	$Mn_3(B_7O_{13})Cl$	PCA21	96	4.585	440.156	0.696	1996	402906
Chamosite	$(Mg_{1.5}Fe_{7.9}Al_{2.6})(Si_{6.2}Al_{1.8}O_{20})(OH)_{16}$	C12/M1	28	3.307	92.606	0.688	1942	64735
Chamosite 1MIIb	$(Mg_{5.036}Fe_{4.964})Al_{2.724}((Si_{5.70}Al_{2.30})O_{20})(OH)_{16}$	C1-	28	3.879	108.606	0.807	1992	80080
Changbaiite	$Pb(Nb_2O_6)$	R3MH	27	2.902	78.343	0.610	1967	24855
Changoite	$Na_2Zn(SO_4)_2(H_2O)_4$	P121/A1	50	3.684	184.193	0.653	1974	6226
Chantalite	$CaAl_2(OH)_4SiO_4$	I41/AZ	32	2.375	76.000	0.475	1979	100320
Chapmanite	$SbFe_2(SiO_4)_2(OH)$	C1M1	14	3.093	43.303	0.812	1977	200068
Charoite	$(K_{13.88}SrBa_{0.32}Mn_{0.36})(Ca_{25.64}Na_{6.36})(Si_6O_{11}(O_{0.873}(OH)_{0.127})_6)_2(Si_{12}O_{18}(O_{0.873}(OH)_{0.127})_{12})_2(Si_{17}O_{25}(O_{0.873}(OH)_{0.127})_{18})_2((OH)_{0.5}F_{0.5})_4(H_2O)_{3.18}$	P121/M1	310	6.425	1991.599	0.776	2010	422031
Chayesite	$K_2Mg_3Fe_2Si_{12}O_{30}$	P6/MCC	100	2.577	257.739	0.388	1980	23369
Chegemite	$Ca_7(SiO_4)_3((OH)_{1.5}F_{0.5})$	PBNM	112	3.950	442.424	0.580	2009	166168
Chekhovichite	$Bi_2Te_4O_{11}$	P121/N1	68	4.087	277.947	0.671	1992	72709
Chenevixite	$Cu_2(Fe_{0.73}Al_{1.27})(AsO_4)_2(OH)_4$	B1211	36	4.170	150.117	0.807	2000	158357
Chengdeite	$FeIr_3$	PM3-M	4	0.811	3.245	0.406	1996	56264
Chenite	$Pb_4Cu(SO_4)_2(OH)_6$	P-1	27	3.792	102.382	0.797	2009	380382
Cheralite	$CaTh(PO_4)_2$	P121/N1	24	2.585	62.039	0.564	2008	162030
Cheralite-(Ce)	$(Ce_{0.41}Ca_{0.29}Th_{0.26}U_{0.04})(PO_4)_{0.95}(SiO_4)_{0.05}$	P121/N1	24	2.585	62.039	0.564	1995	81115
Cherepanovite	RhAs	PNMA	8	1.000	8.000	0.333	1986	42572
Chernovite-(Y)	$Y(AsO_4)$	I41/AMDS	12	1.252	15.020	0.349	1934	24513
Chervetite	$Pb_2(V_2O_7)$	P121/A1	44	3.459	152.215	0.634	1973	2901

Chesnokovite	$Na_2(SiO_2(OH)_2)(H_2O)_8$	IBCA	132	4.075	537.860	0.578	2007	250422
Chesterite	$Mg_{17}(Si_{20}O_{54}(OH)_6)$	A12/M1	89	4.723	420.340	0.729	2008	159690
Chestermanite	$Mg_{2.33}Al_{0.166}Fe_{0.369}Ti_{0.017}Sb_{0.120}O_2(BO_3)$	PBAM	72	4.225	304.235	0.685	1991	71036
Chevkinite-(Ce) (Fe-rich)	$(Ce_{3.686}Ca_{0.14})(Fe_{0.55}Mg_{0.24}Ti_{0.18})(Fe_{1.19}Ti_{2.56}Nb_{0.14})(Si_4O_{20})(O_{0.72}(OH)_{1.28})$	C12/M1	35	3.872	135.525	0.755	2002	97034
Chiavennite	$CaMn(Be_2Si_5O_{13}(OH)_2)(H_2O)_2$	PNAB	104	3.931	408.846	0.587	1995	80917
Childrenite	$(Fe_{0.89}Mn_{0.11})Al(PO_4)(OH)_2(H_2O)$	BBA2	56	3.807	213.212	0.656	1984	30686
Chiolite	$Na_5Al_3F_{14}$	P4/MNC	44	2.459	108.215	0.450	1981	26419
Chivruaiite	$(Ca_{3.1}Sr_{0.2}Mn_{0.4}K_{0.2}Ba_{0.1})(Ti_{4.12}Nb_{0.88})(Si_6O_{17})_2(OH)_{1.52}O_{3.48}(H_2O)_{11.92}$	CMMM	38	3.616	137.421	0.689	2006	156621
Chkalovite	$Na_6Be_3(Si_6O_{18})$	FDD2	66	4.196	276.930	0.694	1975	34075
Chlor-spodiosite	$Ca_2(PO_4)Cl$	PBCM	32	2.500	80.000	0.500	1967	15316
Chloraluminite	$AlCl_3(H_2O)_6$	R3-CH	44	2.128	93.647	0.390	1968	22071
Chlorargyrite	AgCl	FM3-M	2	1.000	2.000	1.000	1999	56538
Chlorartinite	$(Mg_2(CO_3)(H_2O)(OH))Cl(H_2O)_2$	R3CH	66	3.459	228.322	0.572	2006	155697
Chlorbartonite	$K_6Fe_{24}S_{26}Cl$	I4/MMM	57	2.956	168.475	0.507	2003	97288
Chlorfluorapatite	$Ca_5(PO_4)_3F_{0.29}Cl_{0.47}(OH)_{0.24}$	P1121/B	84	4.392	368.955	0.687	1990	68915
Chlorite IIb-4	$(Mg_{11.06}Fe_{0.94})((Si_{5.22}Al_{2.78})O_{20}(OH)_{16})$	C1-	28	3.879	108.606	0.807	2006	156170
Chlorite IIb+4. chromian	$Mg_{5.0}Al_{0.75}Cr_{0.25}AlSi_3O_{10}(OH)_8$	C1-	36	4.225	152.117	0.817	1980	100246
Chloritoid	$(Fe_{1.4}Mg_{0.6})(Fe_{0.16}Al_{3.84})Si_2O_{10}(OH)_4$	P-1	22	3.641	80.107	0.817	2000	91945
Chloritoid 2A	$Fe_{1.77}Mg_{0.15}Al_{3.84}Fe_{0.16}Si_2O_{10}(OH)_4$	C1-	22	3.641	80.107	0.817	1980	100223
Chloritoid 2M	$Fe_{1.81}Mg_{0.27}(Al_{3.92}Si_2O_{10}(OH)_4)$	C12/C1	44	3.550	156.215	0.650	1975	1850
Chlormanganokalite	$K_4(MnCl_6)$	R3-CR	22	1.617	35.578	0.363	1947	24475
Chloromagnesite	$MgCl_2$	R3-MH	3	0.918	2.755	0.579	1991	86439

Chloromenite	$Cu_9O_2(SeO_3)_4Cl_6$	I12/M1	33	3.832	126.465	0.760	1998	50576
Chlorophoenicite	$Al_2PO_4F_2(OH)(H_2O)_7$	C12/M1	90	3.625	326.267	0.558	1968	34813
Chlorospinel	$MgFe_{0.9}Al_{1.1}O_4$	FD3-MS	14	1.379	19.303	0.362	1977	9943
Chlorothionite	$CuK_2Cl_2(SO_4)$	PNMA	40	3.122	124.877	0.587	1976	22364
Chloroxiphite	$Pb_3CuO_2(OH)_2Cl_2$	P121/M1	20	3.122	62.439	0.722	2008	164137
Choloalite	$(Cu_{2.79}Sb_{0.21})(Pb_{2.7}Ca_{0.3})Te_6O_{18}Cl_{0.92}$	P4132	124	2.735	339.144	0.393	1999	87752
Chondrodite	$Mg_4(Mg_{0.95}Fe_{0.05})(SiO_4)_2(F_{1.3}(OH)_{0.7})$	P21/B11	34	3.146	106.974	0.618	1970	15180
Chopinite	$(Fe_{0.732}Mg_{2.268})(PO_4)_2$	P21/C	26	2.777	72.211	0.591	2007	156834
Chrisstanleyite	$(Ag_{1.592}Cu_{0.408})Pd_3Se_4$	P21/C	18	2.281	41.059	0.547	2006	156653
Christelite	$Zn_3Cu_2(SO_4)_2(OH)_6(H_2O)_4$	P-1	39	4.362	170.131	0.825	1996	404835
Christite	$HgTlAsS_3$	P121/N1	24	2.585	62.039	0.564	1976	33705
Chromatite	$CaCrO_4$	I41/AMDS	12	1.252	15.020	0.349	1932	30283
Chromdravite	$Na_{0.84}Ca_{0.16}Mg_{2.80}Cr_{2.18}Al_{3.92}(BO_3)_3(OH)_4(Si_6O_{18})$	R3MH	50	3.522	176.115	0.624	1979	100358
Chromferide	$(Cr_{0.053}Fe_{0.947})$	IM3-M	1	0.000	0.000	Nan	1955	102753
Chromite	$FeCr_2O_4$	FD3-MS	14	1.379	19.303	0.362	1964	43269
Chromium	Cr	IM3-M	1	0.000	0.000	Nan	1955	64711
Chromphyllite	$(K_{0.82}Ba_{0.14}Na_{0.04})(Cr_{0.71}Al_{0.14}Mg_{0.09}V_{0.06})_2(AlSi_3O_{10})(OH)_2$	C12/C1	42	3.440	144.477	0.638	1997	85102
Chrysoberyl	$Al_2(BeO_4)$	PNMA	28	2.522	70.606	0.525	1993	72416
Chrysotile	$Mg_3(Si_2O_5(OH)_4)$	C1C1	24	3.585	86.039	0.782	2004	413633
Chrysotile-2Mc1	$Mg_3(Si_2O_5)(OH)_4$	C1M1	14	3.093	43.303	0.812	1995	77747
Chudobaite	$(Mg_{0.7}Zn_{0.3})_5H_2(AsO_4)_4(H_2O)_{10}$	P-1	57	4.850	276.475	0.832	1976	267
Chukanovite	$Fe_2(CO_3)(OH)_2$	P121/A1	28	2.807	78.606	0.584	2007	159109

Chukhrovite	$Ca_4AlSi(SO_4)F_{13}(H_2O)_{12}$	FD3-Z	120	2.739	328.670	0.397	1981	100728
Chukhrovite-(Y)	$Ca_3YAl_2(SO_4)F_{13}(H_2O)_{11}$	FD3-S	70	2.157	150.972	0.352	1965	61184
Churchite-(Y)	$(Y_{0.947}Dy_{0.028}Er_{0.018}Gd_{0.007})(PO_4)(H_2O)_2$	I12/A1	16	2.250	36.000	0.563	1994	75246
Chursinite	$(Hg_2)_3(AsO_4)_2$	P21/C	32	3.000	96.000	0.600	2004	413886
Chvilevaite	$Na(Cu_{0.67}Fe_{0.22}Zn_{0.11})_2S_2$	P3M1	5	2.322	11.610	1.000	1990	39255
Cianciullite	$Mn(MgMn)Zn_2(OH)_{10}(H_2O)_2$	C12/M1	17	2.911	49.487	0.712	1991	80795
Cinnabar	HgS	FM3-M	2	1.000	2.000	1.000	2009	169621
Ciprianiite	$Ca_4(Ce_{0.74}Ca_{0.60}Th_{0.66})(Al_{0.48}Fe_{0.40}Mg_{0.05}Ti_{0.10})(Be_{0.82}Li_{0.04})B_4Si_4O_{22}(O_{0.97}F_{0.49}(OH)_{0.54})$	P12/A1	82	4.431	363.319	0.697	2002	94644
Claringbullite	$Cu_4Cl(Cl_{0.29}(OH)_{0.71})(OH)_6$	P63/MMC	36	2.182	78.568	0.422	1995	81606
Clarkeite	$Na((UO_2)O(OH))$	R3-MH	6	1.918	11.510	0.742	1997	83456
Claudetite II	As_2O_3	P121/N1	20	2.322	46.439	0.537	1975	4108
Clausthalite	PbSe	FM3-M	2	1.000	2.000	1.000	1983	38294
Clerite	$MnSb_2S_4$	PNAM	28	2.807	78.606	0.584	1989	79676
Cliffordite	UTe_3O_9	PA3-	104	2.680	278.728	0.400	1971	9080
Clinoatacamite	$Cu_2(OH)_3Cl$	P121/N1	36	3.281	118.117	0.635	2009	260350
Clinobarylite	$BaBe_2(Si_2O_7)$	PMN21	24	2.752	66.039	0.600	2004	151563
Clinobehoite	$Be(OH)_2$	P1211	60	4.907	294.413	0.831	1989	65723
Clinobisvanite	$BiVO_4$	I112/B	12	1.918	23.020	0.535	1979	100605
Clinocervantite	$Sb(SbO_4)$	C12/C1	12	1.918	23.020	0.535	1999	88619
Clinochlore	$(Mg_{11.148}Fe_{0.852})((Si_{4.99}Al_{3.01})O_{20}(OH)_{16})$	C12/M1	36	3.670	132.117	0.710	2007	156707
Clinochlore (IIb-4)	$(Mg_{0.966}Fe_{0.034})(Mg_{0.962}Fe_{0.038})_2(Si_{2.96}Al_{1.04})O_{10}(OH)_2(Mg_{0.996}Fe_{0.004})_2(Al_{0.841}Fe_{0.102}Cr_{0.004}Ti_{0.004})(OH)_6$	C1-	36	4.225	152.117	0.817	1997	84262

Clinochlore 1M (Ia-4. chromian)	$Mg_5(Mg_{0.1}Al_{1.2}Cr_{0.7})(Si_3O_{10}(OH)_8)$	C1-	28	3.879	108.606	0.807	1963	16912
Clinochlore 1MIa	$Mg_{2.5}Fe_{1.65}Al_{1.5}Si_{2.2}Al_{1.8}O_{10}(OH)_8$	C121	28	4.022	112.606	0.837	1961	43627
Clinochlore 2A (Ia-5 + IIa-4)	$Mg_6(Si_4O_{10})(OH)_8$	C1	56	5.807	325.212	1.000	1967	24950
Clinochlore 2M	$Al_2Mg_5(Si_3O_{10})(OH)_8$	C12/C1	60	4.107	246.413	0.695	1934	26850
Clinochlore Ia. chromian	$(Mg_{5.0}Fe_{0.1}Cr_{0.7}Al_{0.2})(Si_3AlO_{10})(OH_{0.9875})_8$	C1-	36	4.225	152.117	0.817	1986	63268
Clinochlore IIb-2	$(Mg_{4.715}Al_{.694}Fe_{.269}Fe_{.109}Cr_{.128}Ni_{.011})(Si_{3.056}Al_{.944})O_{10}(OH)_8$	C12/M1	36	3.670	132.117	0.710	1989	65719
Clinochlore IIb-4	$(Mg_{4.715}Al_{.694}Fe_{.269}Fe_{.109}Cr_{.128}Ni_{.011})(Si_{3.056}Al_{.944})O_{10}(OH)_8$	C1-	36	4.225	152.117	0.817	1989	63193
Clinoclase	$Cu_3(AsO_4)(OH)_3$	P21/C	44	3.459	152.215	0.634	1990	68456
Clinoenstatite	$Mg(SiO_3)$	P21/C	40	3.322	132.877	0.624	1976	34163
Clinoenstatite HP	$Mg(SiO_3)$	C12/C1	20	2.522	50.439	0.584	1992	64981
Clinoferrosilite	$FeSiO_3$	C12/C1	20	2.522	50.439	0.584	1984	30675
Clinohedrite	$CaZn(SiO_4)(H_2O)$	C1C1	20	3.322	66.439	0.769	1977	200432
Clinohumite	$(Mg_{8.42}Fe_{0.58})(SiO_4)_4(OH)F$	P21/B11	62	3.986	247.160	0.670	1973	10300
Clinohypersthene	$(Mg_{0.316}Fe_{0.669}Ca_{0.016})(SiO_3)$	P21/C	40	3.322	132.877	0.624	1974	6253
Clinojimthompsonite	$Mg_{7.958}Fe_{2.042}Si_{12}O_{32}(OH)_4$	C12/C1	58	4.030	233.763	0.688	1978	100658
Clinokurchatovite	$CaMg(B_2O_5)$	P21/C	72	4.170	300.235	0.676	2003	97705
Clinomimetite	$NaLi_2(PO_4)$	P1121/B	32	2.500	80.000	0.500	1991	69967
Clinophosinaite	$Na_3Ca(SiO_3)(PO_4)$	P12/C1	104	4.854	504.846	0.724	1980	200927
Clinoptilolite	$Ca_{3.16}Si_{36}O_{72}(H_2O)_{21.80}$	C12/M1	72	4.475	322.235	0.725	1975	4349
Clinopyroxene	$Fe_{1.6}Ca_{0.4}(SiO_3)_2$	C12/C1	20	2.522	50.439	0.584	1975	10115

Clinosafflorite	$CoAs_2$	P21/C	12	1.585	19.020	0.442	1971	42613
Clinospodumene low	$AlLi(Si_2O_6)$	P21/C	40	3.322	132.877	0.624	2004	159555
Clinostrengite	$Fe(PO_4)(H_2O)_2$	P121/N1	48	3.585	172.078	0.642	2004	54876
Clinotobermorite	$Ca_5(Si_6O_{17})(H_2O)_5$	C12/C1	68	4.146	281.947	0.681	2000	56854
Clinotobermorite	$Ca_5(Si_6O_{17})(H_2O)_5$	C1	33	5.044	166.465	1.000	1999	87688
Clinotobermorite	$Ca_5(Si_6O_{17})(H_2O)_5$	C1C1	66	5.044	332.930	0.835	2000	90036
Clinotobermorite	$Ca_5(Si_6O_{16}(OH)_2)(H_2O)_4$	I12/M1	17	3.264	55.487	0.799	1997	403090
Clinozoisite	$Ca_2Al_2(Al_{0.79}Fe_{0.21})(SiO_4)_3(OH)$	P121/M1	42	4.107	172.477	0.762	1997	66927
Clintonite 1M	$Ca(Mg_{2.16}Al_{.7}Fe_{.12})(Si_{1.32}Al_{2.68})O_{10}(OH)_{1.56}F_{.44}$	C12/M1	22	3.005	66.107	0.674	1988	202663
Clintonite 2M1	$Ca_{1.2}Mg_{1.7}Al_{3.9}Si_{1.2}O_{10.3}(OH)_{1.7}$	C12/C1	40	3.422	136.877	0.643	1961	20371
Coalingite	$FeMg_5(OH)_{12}(CO_3)_{0.48}(H_2O)$	R3-MH	7	1.950	13.651	0.695	1971	23571
Coaxite	$Ca(C_2O_4)(H_2O)_3$	P-1	32	4.000	128.000	0.800	1997	77096
Cobaltarthurite	$CoFe_2(AsO_4)_2(OH)_2(H_2O)_4$	P21/C	58	3.892	225.763	0.664	2005	152223
Cobaltite	CoAsS	PA3-	12	0.918	11.020	0.256	1957	24472
Cobaltite	CoAsS	PCA21	12	1.585	19.020	0.442	1982	31189
Cobaltite	CoAsS	P21/C	12	1.918	23.020	0.535	1957	44607
Cobaltite	CoAsS	P213	12	1.585	19.020	0.442	1925	53938
Cobaltkoritnigite	$Co(HAsO_4)(H_2O)$	P-1	56	4.807	269.212	0.828	1979	32025
Cobaltlotharmeyerite	$Ca(Co_{0.97}Fe_{0.67}Ni_{0.36})(AsO_4)_2((OH)_{0.67}(H_2O)_{1.33})$	C12/M1	17	2.911	49.487	0.712	1999	89036
Cobaltludwigite	$BaSn_{.77}Ti_{.23}Si_3O_9$	PBAM	28	2.020	56.567	0.420	1989	70104
Cobaltneustaedtelite	$Bi_2FeCoO(OH)_3(AsO_4)_2$	P-1	36	4.281	154.117	0.828	2002	94641
Cobaltoferrite	$Fe_{0.88}Co_{0.19}(Fe_{1.02}Co_{0.94})O_4$	FD3-MS	14	1.379	19.303	0.362	2002	94871
Cobaltomenite	$Co(SeO_3)(H_2O)_2$	P121/N1	44	3.459	152.215	0.634	1990	69219

Cobaltpentlandite	Co_9S_8	FM3-M	17	1.646	27.977	0.403	1975	40046
Cobaltrichterite. potassian	$K(NaCa)Co_5(Si_8O_{22})(OH)_2$	C12/M1	40	3.672	146.877	0.690	1993	73435
Cobalttsumcorite	$Pb(Co_{0.79}Fe_{0.73}Ni_{0.4}Zn_{0.04}Al_{0.04})(AsO_4)_2((OH)_{0.77}(H_2O)_{1.23})$	C12/M1	15	2.707	40.603	0.693	2001	96046
Coccinite	HgI_2	P42/NMCZ	6	0.918	5.510	0.355	1987	68262
Cochromite	$AlCu_2(AsO_4)(OH)_4(H_2O)_4$	FD3-MS	32	3.125	100.000	0.625	1990	69540
Coesite	SiO_2	C12/C1	24	2.752	66.039	0.600	1969	18112
Coesite	SiO_2	P21/C	48	3.585	172.078	0.642	1999	162630
Coffinite	$USiO_4$	I41/AMDS	12	1.252	15.020	0.349	1958	15484
Cohenite	Fe_3C	PNMA	16	1.500	24.000	0.375	1964	16593
Colemanite	$Ca(B_3O_4(OH)_3)(H_2O)$	P121/A1	68	4.087	277.947	0.671	1993	75921
Collinsite	$Ca_2Mg(PO_4)_2(H_2O)_2$	P-1	19	3.301	62.711	0.777	2006	156224
Coloradoite	HgTe	F4-3M	2	1.000	2.000	1.000	1983	60203
Colquiriite	$LiCa(AlF_6)$	P3-1C	18	1.447	26.039	0.347	1971	25022
Columbite	$FeNb_2O_6$	PBCN	36	2.281	82.117	0.441	1971	31943
Colusite	$V_2(As_{3.6}Sn_{1.8}Sb_{0.6}Cu_{25.84})S_{32}$	P4-3N	66	2.498	164.852	0.413	2002	96773
Combeite high	$Na_{5.27}Ca_3(Si_6O_{18})$	R3-MH	33	2.816	92.916	0.558	1987	62827
Combeite low	$Na_{4.4}Ca_{3.8}(Si_6O_{18})$	P3121	99	4.196	415.395	0.633	1987	62826
Compreignacite	$K_2(UO_2)_6O_4(OH)_6(H_2O)_{6.84}$	PNNM	74	3.480	257.500	0.560	1998	86630
Congolite	$Fe_3(ClB_7O_{13})$	R3CH	48	3.198	153.510	0.573	1985	60504
Conichalcite	$CaCu(AsO_4)(OH)$	P212121	36	3.170	114.117	0.613	2008	260059
Connellite	$Cu_{36}Cl_{7.86}(SO_4)_{0.67}(NO_3)_{0.5}(OH)_{62.3}(H_2O)_{5.6}$	P63/MMC	128	3.452	441.804	0.493	2006	415129
Cookeite Ia2	$Al_{4.5}(Al_{.8}Si_{3.2})O_{10}(OH)_8$	C121	27	3.940	106.382	0.829	1972	9368

Cookeite IIa	$Al_2(Al_2Li)((Si_{3.04}Al_{0.96})O_{10})(OH)_8$	C1C1	70	5.129	359.050	0.837	1997	83765
Cooperite	PtS	P42/MMC	4	1.000	4.000	0.500	1960	654379
Coparsite	$Cu_4O_2(As_{0.54}V_{0.46}O_4)Cl$	PBCM	48	2.918	140.078	0.523	1998	50575
Copper	Cu	FM3-M	1	0.000	0.000	Nan	1953	64699
Coquimbite	$(Fe_{1.50}Al_{0.50})(SO_4)_3(H_2O)_9$	P3-1C	164	3.874	635.384	0.527	2010	169958
Corderoite	$Hg_3S_2Cl_2$	I213	14	1.557	21.793	0.409	1968	28159
Cordierite	$Mg_2(Al_4Si_5O_{18})$	P6/MCC	58	2.072	120.175	0.354	2009	163937
Cordierite	$Mg_2Al_4Si_5O_{18}$	CCCM	58	3.479	201.763	0.594	2011	261437
Cordylite-(Ce)	$NaBaCe_2F(CO_3)_4$	P63/MMC	42	2.629	110.438	0.488	1987	68245
Corkite	$Pb(Fe_{0.88}Zn_{0.11}Al_{0.01})_3(SO_4)_{1.2}(PO_4)_{0.64}(SiO_4)_{0.16}(OH)_6$	R3-MH	20	2.333	46.664	0.540	2009	166303
Cornetite	$Cu_3(PO_4)(OH)_3$	PBCA	88	3.459	304.430	0.536	1989	67044
Cornubite	$Cu_5(OH)_4(AsO_4)_2$	P-1	19	3.301	62.711	0.777	1984	30683
Cornwallite	$Cu_5((AsO_4)_{0.9}(PO_4)_{0.1})_2(OH)_4$	P21/C	46	3.567	164.084	0.646	1999	89035
Coronadite	$Pb_{1.34}Mn_8O_{16}$	I12/M1	14	2.807	39.303	0.737	1989	203079
Corundophilite	$(Mg_{5.0}Al_{.6}Fe_{.4})(Si_{2.5}Al_{1.5})O_{10}(OH)_8$	C1	28	4.807	134.606	1.000	1958	16733
Corundum	$(Al_{1.896}Cr_{0.104})O_3$	R3-CH	10	0.971	9.710	0.292	1972	9545
Corundum	Al_2O_3	R3-CH	10	0.971	9.710	0.292	1978	9770
Corvusite	$(Na_{0.7}Ca_{0.3})(V_{7.6}Fe_{0.4})O_{20}(H_2O)_4$	C12/M1	15	2.974	44.603	0.761	1994	64792
Cosalite	$Cu_{0.96}Ag_{1.11}Pb_{6.87}Bi_{8.06}S_{20}$	PNMA	76	4.248	322.842	0.680	2010	169948
Coskrenite-(Ce)	$(La_{.1}Ce_{.6}Nd_{.3})_2(SO_4)_2(C_2O_4)(H_2O)_8$	P-1	40	4.322	172.877	0.812	1999	56910
Costibite	CoSbS	PN21M	6	1.585	9.510	0.613	1975	40044
Cotunnite	$PbCl_2$	PNAM	12	1.585	19.020	0.442	1986	202130

Coulsellite	$CaNa_3AlMg_3F_{14}$	R3-MR	22	2.526	55.578	0.567	2010	168054
Coulsonite	FeV_2O_4	FD3-MS	14	1.379	19.303	0.362	1969	28962
Covellite	CuS	P63/MMC	12	1.918	23.020	0.535	1988	63327
Covellite	CuS	CMCM	12	1.918	23.020	0.535	1988	63328
Crandallite H	$CaAl_3(OH)_6(PO_4H_{0.5})_2$	R3-MH	25	2.432	60.812	0.524	1974	6195
Crawfordite	$Na_3Sr(PO_4)(CO_3)$	P1121	26	3.700	96.211	0.787	1992	39559
Crednerite	$Cu(Mn_{0.96}Cu_{0.04})O_2$	C12/M1	4	1.500	6.000	0.750	2011	180020
Crednerite	$Cu(Mn_{0.96}Cu_{0.04})O_2$	P-1	4	1.500	6.000	0.750	2011	180021
Creedite	$Ca_3Al_2F_8(OH)_2(SO_4)(H_2O)_2$	C12/C1	56	3.879	217.212	0.668	1983	31248
Crichtonite	$Sr_{0.7}La_{0.1}Pb_{0.1}Ti_{13.6}Fe_{6.7}Mn_{0.7}O_{38}$	R3-R	60	3.514	210.825	0.595	1976	12122
Cristobalite	SiO_2	P21/C	24	2.585	62.039	0.564	2000	91736
Cristobalite	SiO_2	P41212	12	0.918	11.020	0.256	2005	153886
Cristobalite alpha	SiO_2	P42/MNM	6	0.918	5.510	0.355	2001	51701
Cristobalite beta	SiO_2	FD3-MS	26	0.391	10.172	0.083	1994	44095
Cristobalite beta	SiO_2	I4-2D	6	0.918	5.510	0.355	2008	162246
Cristobalite beta	SiO_2	P213	24	1.792	43.020	0.391	1999	162616
Cristobalite beta	SiO_2	FDD2	6	0.918	5.510	0.355	1975	162660
Cristobalite beta	SiO_2	FD3-MS	26	0.391	10.172	0.083	1975	162661
Cristobalite-II	SiO_2	P21/C	24	2.585	62.039	0.564	2011	180906
Crocoite	$Pb(CrO_4)$	P121/N1	24	2.585	62.039	0.564	1986	40920
Crocoite O	$Pb(CrO_4)$	PNMA	24	2.252	54.039	0.491	2000	91735
Cronstedtite 1T	$Fe_3((Si_{0.74}Fe_{0.26})_2O_5)(OH)_4$	P31M	18	2.891	52.039	0.693	2006	158236
Cronstedtite 2H2	$Fe_3(Si_{1.32}Fe_{0.68})O_5(OH)_4$	P63	28	2.788	78.077	0.580	2002	95932

Cronstedtite 2T	$Fe_3((FeSi)O_4(OH)_5)$	P63CM	28	2.503	70.077	0.521	1963	18194
Cronstedtite 3T	$Fe_3((FeSi)O_4(OH)_5)$	P31	42	3.807	159.909	0.706	1963	18195
Cronstedtite 6R	$Fe_3((FeSi)O_4(OH)_5)$	R3H	28	3.788	106.077	0.788	1963	18196
Crookesite	$TlCu_7Se_4$	I4/M	13	1.854	24.106	0.501	1991	69104
Crossite	$(OH)_2(Ca_{.16}Na_{1.29}K_{.11})(Fe_{.62}Mg_{.79}Al_{.48})(Fe_{1.29}Al_{.71})(Fe_{.61}Mg_{.39})(Si_{7.98}O_{22})$	C12/M1	39	3.593	140.131	0.680	1967	27459
Cryolite	$Na_3(AlF_6)$	P121/N1	20	2.522	50.439	0.584	1975	4029
Cryolite HT	$Na_3(AlF_6)$	IMMM	10	2.122	21.219	0.639	1993	74210
Cryolite HT	$Na_3(AlF_6)$	FM3-M	28	0.806	22.567	0.168	2009	164688
Cryolithionite	$Na_3Li_3(AlF_6)_2$	IA3-D	80	1.595	127.637	0.252	1971	9923
Cryptohalite	$(NH_4)_2(SiF_6)$	FM3-M	33	1.179	38.916	0.234	1956	44790
Cryptomelane (W-doped)	$K_{0.133}(W_{0.008}Mn_{0.992})O_2$	I4/M	13	1.854	24.106	0.501	2008	162068
Cryptomelane M	$(K_{1.3}Na_{.22}Sr_{.16})(Mn_{7.5}Fe_{.3}Al_{.15})O_{16}$	I12/M1	13	2.777	36.106	0.751	1982	27241
Cryptophyllite	$K_2Ca(Si_4O_{10})(H_2O)_5$	P121/N1	80	4.322	345.754	0.684	2010	168543
Cualsite	$Cu(Al_2Si_2O_7)(F(OH))$	PBNM	56	2.950	165.212	0.508	1998	51071
Cualstibite	$Cu_2AlSb(OH)_{12}$	P3-	84	3.944	331.328	0.617	2007	156180
Cubanite	$CuFe_2S_3$	PCMN	24	1.918	46.039	0.418	1971	14255
Cubanite high	$Cu_{.3333}Fe_{.6667}S$	F4-3M	2	1.000	2.000	1.000	1970	64708
Cumengeite	$Cu_{20}Pb_{21}Cl_{42}(OH)_{40}(H_2O)_6$	I4/MMM	171	4.248	726.453	0.573	2005	157067
Cummingtonite	$(Na_{.06}Ca_{.36}Mn_{.96}Fe_{.01}Mg_{5.57}Al_{.01})Si_{8.02}O_{22}(OH)_2$	C12/M1	39	3.593	140.131	0.680	1972	9260
Cummingtonite	$(Fe_{2.463}Mg_{4.423}Ca_{0.100}Al_{0.014})(Si_8O_{22.014}(OH)_{1.986})$	P121/M1	78	4.414	344.261	0.702	1995	80856
Cupalite	AlCu	I12/M1	10	2.522	25.219	0.759	1972	40332
Cuprite	Cu_2O	PN3-MS	6	0.918	5.510	0.355	1979	628619

Cuprobismutite	$Cu_8(Ag_{1.42}Bi_{12.58})S_{24}$	C12/M1	23	3.567	82.042	0.789	2003	55312
Cuproiridsite	$Cu(Ir_2S_4)$	FD3-MS	14	1.379	19.303	0.362	1994	75531
Cupromakovickyite	$Ag_{2.08}Bi_{17.92}Cu_8Pb_4S_{36}$	C12/M1	34	4.146	140.974	0.815	2008	160421
Cupropearceite	$(Cu_{4.668}Ag_{1.332})(As_{1.602}Sb_{0.398})S_7Ag_9CuS_4$	P3-M1	32	2.499	79.961	0.500	2009	180396
Cuprorhodsite	$CuRh_2S_4$	FD3-MS	14	1.379	19.303	0.362	1976	41900
Cuprorivaite	$CaCuSi_4O_{10}$	P4/NCCS	64	2.375	152.000	0.396	1995	402012
Cuprosklodowskite	$Cu(UO_2)_2SiO_3OHSiO_3OH(H_2O)_6$	P-1	23	3.567	82.042	0.789	1975	4350
Cuprospinel	$Cu_{.86}Fe_{2.14}O_4$	FD3-MS	14	1.379	19.303	0.362	1971	24872
Cuprospinel Q	$CuFe_2O_4$	I41/AMDS	14	1.379	19.303	0.362	1956	16666
Cuprostibite	Cu_2Sb	P4/NMMS	6	1.585	9.510	0.613	1985	42323
Curetonite	$Ba(Al_{0.83}Ti_{0.17})(PO_4)(O_{0.17}(OH)_{0.83})F$	P121/N1	36	3.281	118.117	0.635	1994	75287
Curienite	$Pb((UO_2)_2V_2O_8)(H_2O)_5$	PCAN	84	3.440	288.955	0.538	1971	23515
Curite	$Pb_{3.328}(H_2O)_2((UO_2)_4O_{4.328}(OH)_{2.672})_2$	PNAM	88	4.005	352.430	0.620	2000	89879
Cuspidine	$Ca_4(F_{1.5}(OH)_{0.5})Si_2O_7$	P21/C	60	3.907	234.413	0.661	1977	34339
Cyanochroite	$K_2(Cu(H_2O)_6)(SO_4)_2$	P121/A1	62	3.986	247.160	0.670	1972	2925
Cymrite	$BaAl_2Si_2O_8H_2O$	P1211	120	5.907	708.827	0.855	1975	24972
Cymrite	$BaAl_2(SiO_4)_2(H_2O)_2$	P1M1	120	5.990	718.827	0.867	1991	39400
Cymrite (K-exchanged)	$K(AlSi_3O_8)(H_2O)$	P6/MMM	14	1.985	27.793	0.521	1997	50063
Cyrilovite	$NaFe_3(PO_4)_2(OH)_4(H_2O)_2$	P41212	112	3.879	434.424	0.570	2000	90612
D'Ansite-(Zn)	$ZnNa_{21}Cl_3(SO_4)_{10}$	I4-3D	150	3.137	470.618	0.434	1980	100174
Dachiardite	$Ca_{1.02}(Si_{5.16}Al_{0.84}O_{12})(H_2O)_{2.92}$	C12/M1	50	4.164	208.193	0.738	1990	158032
Dadsonite	$Pb_{22}Sb_{26}S_{60}Cl$	P-1	109	5.777	629.732	0.854	2006	156239
Dalyite	$K_{1.70}Na_{.30}ZrSi_6O_{15}$	P-1	24	3.668	88.039	0.800	1965	22323

Damaraite	$Pb_3O_2(OH)Cl$	PMC21	32	3.750	120.000	0.750	2001	94064
Damiaoite	$PtIn_2$	FM3-M	3	0.918	2.755	0.579	1997	56259
Danalite	$Fe_8(BeSiO_4)_6S_2$	P4-3N	46	1.892	87.025	0.343	2003	97780
Danburite	$Ca(B_2Si_2O_8)$	PNAM	52	2.931	152.423	0.514	1974	6254
Dantopaite	$(NH_4)_4NaAl_2(SO_4)_4Cl(OH)_2$	C12/M1	160	3.572	571.508	0.488	2010	169963
Daqingshanite-(Ce)	$Sr_3Ce(PO_4)(CO_3)_3$	R3MH	21	2.748	57.709	0.626	1994	76608
Darapiozite	$(Mn_{1.47}Zr_{0.28}Y_{0.22}Mg_{0.03})(Na_{1.22}K_{0.36})K(Li_{1.54}Zn_{1.15}Fe_{0.31})Si_{12}O_{30}$	P6/MCC	100	2.577	257.739	0.388	1999	87755
Darapskite	$Na_3(NO_3)(SO_4)(H_2O)$	P121/M1	26	3.393	88.211	0.722	1967	26972
Dashkesanite	$(K_{0.613}Na_{0.357})(Ca_{1.95}Mn_{0.05})(Fe_{0.8}Mg_{0.2})_2(Fe_{0.85}Mg_{0.15})_2Fe((Si_{6.3}Al_{1.7})O_{22})Cl_{1.4}(OH)_{0.28}F_{0.28}$	C12/M1	40	3.672	146.877	0.690	1996	39938
Dashkovaite	$Mg(HCO_2)_2(H_2O)_2$	P21/C	36	3.281	118.117	0.635	1964	58091
Datolite	$CaB(SiO_4)(OH)$	P21/C	32	3.000	96.000	0.600	2010	168615
Daubreelite	Cr_2FeS_4	FD3-MS	14	1.379	19.303	0.362	1981	625946
Davanite	$K_2Ti(Si_6O_{15})$	P-1	24	3.668	88.039	0.800	1983	46012
Davidite-(La)	$Ti_{12.67}Fe_{6.15}La_{0.91}Ca_{0.2}U_{0.33}Y_{0.3}Mg_{0.24}Cr_{0.21}Sr_{0.09}O_{38}$	R3-R	60	3.514	210.825	0.595	1979	100554
Davreuxite	$MnAl_6Si_4O_{17}(OH)_2$	P121/M1	60	4.507	270.413	0.763	1984	30870
Davyne	$Na_{3.3}K_{1.7}Ca_{2.0}(AlSiO_4)_6Cl_2(OH)$	P63	46	3.076	141.515	0.557	1990	68939
Dawsonite	$NaAl(OH)_2(CO_3)$	IMMA	20	2.722	54.439	0.630	1977	100140
Deanesmithite	$Hg_2Hg_3CrO_5S_2$	P-1	26	3.777	98.211	0.804	1997	89261
Deerite	$Fe_6Fe_3O_3(Si_6O_{17})(OH)_5$	P121/A1	160	5.322	851.508	0.727	1977	10421
Defernite	$Ca_6(CO_3)_{1.58}(Si_2O_7)_{0.21}(OH)_7(Cl_{0.50}(OH)_{0.08}(H_2O)_{0.42})$	PNAM	124	4.890	606.320	0.703	1996	81638
Delafossite	$CuCrO_2$	R3-MH	4	1.500	6.000	0.750	2009	163255
Delhayelite	$(Ca_{1.067}Na_{0.91}Si_{0.02})_4K_{7.27}((Si_{13.76}Al_{2.24})O_{38})Cl_{1.84}F_4$	PMMNZ	76	3.932	298.842	0.629	2009	167593

Delindeite	$(Ba_{1.96}K_{0.08})(Na_{1.36}K_{0.18}Fe_{0.05}Mn_{0.02})(Ti_{2.9}Fe_{0.12}Nb_{0.13}Al_{0.05})(Si_2O_7)_2(O_{1.51}(OH)_{0.47})((OH)_{1.34}F_{0.66})(H_2O)_{1.7}$	C12/C1	138	5.181	714.976	0.729	2007	158482
Dellaite	$Ca_6(Si_2O_7)(SiO_4)(OH)_2$	P-1	48	4.585	220.078	0.821	1981	20148
Dellaventuraite. anhydrous	$(K_{0.8}Na_{1.22})(Na_{1.71}Ca_{0.28})(Ti_{0.6}Mn_{0.63}Mg_{0.77})(Fe_{0.72}MgMn_{0.19}Al_{0.1})(Li_{0.9}Mn_{0.03}Mg_{0.07})(Si_8O_{24})$	C12/M1	41	3.699	151.660	0.690	2005	171062
Deloneite-(Ce)	$(Na_2Ca_{3.55}Sr_{2.3}Ce_{1.3}La_{0.6}Nd_{0.25})(P_{5.8}Si_{0.2})O_{24}F_{1.41}(OH)_{0.63}$	P3	43	4.099	176.271	0.755	1996	89263
Deloryite	$Cu_4(UO_2)(Mo_2O_8)(OH)_6$	C12/M1	23	3.219	74.042	0.712	1996	81555
Demartinite	$K_2(SiF_6)$	P63MC	18	2.113	38.039	0.507	2007	158483
Demesmaekerite	$Pb_2Cu_5(SeO_3)_6(UO_2)_2(OH)_6(H_2O)_2$	P-1	45	4.514	203.133	0.822	1983	37177
Demicheleite	$BiS(Br_{0.61}Cl_{0.39})$	PNAM	12	1.585	19.020	0.442	2008	161637
Demicheleite-(Cl)	$BiS(Cl_{0.87}Br_{0.13})$	PNAM	12	1.585	19.020	0.442	2009	163886
Denningite	$Mn_2(Te_2O_5)_2$	P42/NBCZ	64	2.375	152.000	0.396	1993	73991
Derbylite	$Fe_4Ti_3SbO_{13}(OH)$	P121/M1	44	3.641	160.215	0.667	1976	9825
Derriksite	$Cu_4(UO_2)(SeO_3)_2(OH)_6$	PN21M	42	3.916	164.477	0.726	1983	38076
Descloizite	$PbZn(VO_4)OH$	PNMA	32	2.750	88.000	0.550	1979	8062
Despujolsite	$Ca_3Mn(SO_4)_2(OH)_6(H_2O)_3$	P6-2C	46	2.588	119.025	0.468	1968	15729
Dessauite	$(Sr_{0.42}Pb_{0.24}Ba_{0.12})(Y_{0.3}U_{0.3}Mn_{0.12}La_{0.18})(Fe_7Ti_{12.66})O_{38}$	R3-R	66	3.634	239.832	0.601	1998	77505
Devilline	$CaCu_4(OH)_6(SO_4)_2(H_2O)_3$	P21/C	192	5.585	1072.313	0.736	1972	2764
Devitoite	$(Ba_6(PO_4)_{1.48}O_{2.08}(CO_3))(Fe_9(OH)_4O_2(SiO_3)_8)$	P-1	64	5.031	322.000	0.839	2010	166995
Devitrite	$Na_2Ca_3(Si_6O_{16})$	P-1	54	4.755	256.764	0.826	2010	380480
Dewindtite	$Pb_3(H(UO_2)_3O_2(PO_4)_2)_2(H_2O)_{12}$	BMMB	116	4.306	499.526	0.628	1990	69399
Diaboleite	$Pb_2Cu(OH)_4Cl_2$	P4MM	13	2.316	30.106	0.626	1995	81589

Diadochite	$(Fe_{1.77}Al_{0.23})(PO_4)(SO_4)(OH)(H_2O)_6$	P-1	64	5.000	320.000	0.833	1999	87770
Diamond	C	FD3-MS	2	0.000	0.000	0.000	1975	76766
Diamond	C	CMMA	8	1.000	8.000	0.333	1999	88815
Diamond	C	CMMM	8	1.000	8.000	0.333	1999	88816
Diamond	C	PBANS	16	1.000	16.000	0.250	1999	88817
Diamond	C	IA3-	8	0.000	0.000	0.000	1999	88818
Diamond	C	IA3-	8	0.000	0.000	0.000	1999	88819
Diamond	C	P63/MMC	4	0.000	0.000	0.000	1999	88822
Diamond 15R	C	R3-MH	10	2.322	23.219	0.699	1992	66469
Diamond 21R	C	R3-MH	14	2.807	39.303	0.737	1992	66470
Diamond 3C	C	FD3-MS	2	0.000	0.000	0.000	1992	66464
Diamond 4H	C	P63/MMC	8	1.000	8.000	0.333	1992	66466
Diamond 6H	C	P63/MMC	12	1.585	19.020	0.442	1992	66467
Diamond 8H	C	P63/MMC	16	2.000	32.000	0.500	1992	66468
Diamond-n	C	R3R	8	1.811	14.490	0.604	2006	157074
Diaoyudaoite	$NaAl_{11}O_{17}$	P63/MMC	58	2.978	172.704	0.508	1992	67545
Diaphorite	$(Pb_{1.89}Ag_{3.11})(Sb_3S_8)$	P21/C	64	4.000	256.000	0.667	2003	97689
Diaspore	AlO(OH)	PBNM	16	2.000	32.000	0.500	1995	64982
Dickinsonite-(KMnNa)	$K_{0.5}Na_{4.92}(Ca_{0.51}Sr_{0.05}Ba_{0.01}Pb_{0.01})(Mn_{9.7}Fe_{3.8}Li_{0.3})Al(P_{12}O_{48})((OH)_{1.97}F_{0.03})$	C1C1	172	6.426	1105.318	0.865	2006	156572
Dickite 2M1	$Al_2(Si_2O_5)(OH)_4$	C1C1	34	4.087	138.974	0.803	1993	80081
Dickthomssenite	$Mg(V_2O_6)(H_2O)_7$	C12/C1	240	5.940	1425.654	0.751	2001	92984
Dietrichite	$Zn_{.954}Al_{1.97}(SO_4)_4(H_2O)_{22}$	P21/C	180	5.492	988.534	0.733	2003	172101

Dietzeite	$Ca_2(IO_3)_2(CrO_4)(H_2O)$	P21/C	72	4.170	300.235	0.676	1993	75923
Digenite	$Cu_{1.8}Se$	FM3-M	3	0.918	2.755	0.579	1991	41143
Digenite	Cu_9S_5	R3-MH	14	2.950	41.303	0.775	1993	41263
Digenite	$Cu_{1.95}S$	F4-3M	3	1.585	4.755	1.000	1969	42709
Dimorphite I	As_4S_3	PNMA	28	2.236	62.606	0.465	1970	16145
Dimorphite II	As_4S_3	PNMA	28	2.236	62.606	0.465	1973	16105
Dingdaohengite-(Ce)	$Ce_{3.6}(Fe_{1.42}Ti_{1.42})Ti_{1.96}(Si_4O_{22})$	P121/A1	74	4.291	317.500	0.691	2005	157061
Dingdaohengite-(Ce)	$Ce_{3.6}(Fe_{1.27}Ti_{1.58})(Ti_{1.96}Si_4O_{22})$	C12/M1	35	3.872	135.525	0.755	2005	157062
Dinite	$C_{20}H_{36}$	P212121	80	4.322	345.754	0.684	1991	56909
Diomignite	$Li_2(B_4O_7)$	I41CD	52	2.777	144.423	0.487	1979	300010
Diopside	$CaMgSi_2O_6$	C12/C1	20	2.522	50.439	0.584	1969	9672
Diopside-enstatite solution	$Ca_{0.15}Mg_{1.85}(Si_2O_6)$	P21/C	40	3.322	132.877	0.624	2002	95387
Dioptase	$Cu(SiO_3)(H_2O)$	R3-H	48	3.000	144.000	0.537	1978	200761
Direnzoite	$(Na_{0.94}K_{6.00}Mg_{1.42}Ca_{2.24})((Si_{45.12}Al_{14.88})O_{120})(H_2O)_{38}$	PMMNZ	220	5.363	1179.899	0.689	2008	159047
Dissakisite-(Ce)	$Ca_{0.998}(La_{0.202}Ce_{0.349}Pr_{0.059}Nd_{0.197}Sm_{0.035}Gd_{0.018}Ca_{0.115}Fe_{0.025})Al_2(Al_{0.126}Fe_{0.213}Mg_{0.661})(Si_3O_{12}(OH))$	P121/M1	42	4.107	172.477	0.762	2008	159882
Dixenite	$Cu_{0.84}Mn_{13.9}Mg_{0.1}FeAs_{6.3}Si_{1.7}O_{33}H_6$	R3H	57	4.582	261.151	0.785	1981	30787
Djerfisherite	$K_6Na_{0.81}(Fe_{.84}Cu_{.16})_{24}S_{26}Cl$	PM3-M	58	2.270	131.685	0.388	1979	200919
Djurleite	$Cu_{31}S_{16}$	P121/N1	376	6.555	2464.525	0.766	1979	100334
Dmisteinbergite	$Ca(Al_2Si_2O_8)$	P63/MCM	26	1.738	45.192	0.370	1959	26486
Dolerophane	$Cu_2O(SO_4)$	C12/M1	16	2.750	44.000	0.688	1985	61513
Dollaseite-(Ce)	$Ca_{.96}Ce_{1.04}(Mg_{1.87}Fe_{.14}Al_{.99})(SiO_4)(Si_2O_7)(OH)F_{.87}O_{.13}$	P121/M1	44	4.187	184.215	0.767	1988	202605
Dolomite	$CaMg(CO_3)_2$	R3-H	10	1.571	15.710	0.473	1977	10404

Doloresite	$H_{10}V_6O_{16}$	C12/M1	11	2.550	28.054	0.737	1960	27542
Domeykite	Cu_3As	I4-3D	32	0.811	25.961	0.162	1938	655109
Domeykite high	Cu_3As	P3-C1	24	1.730	41.510	0.377	1938	16840
Donnayite-(Y)	$(Na_{0.5}Ce_{0.5})Sr(CO_3)_2(H_2O)$	R3MH	10	2.371	23.710	0.714	1992	43453
Donnayite-(Y)	$(Na_{0.4}Y_{0.2}Ce_{0.4})Sr(CO_3)_2(H_2O)$	P1	33	5.044	166.465	1.000	1992	43454
Donpeacorite	$(Mn_{0.53}Mg_{0.47})MgSi_2O_6$	PBCA	80	3.322	265.754	0.525	1984	30676
Dorallcharite	$(Tl_{0.87}K_{0.13})Fe_3(SO_4)_2(OH)_6$	R3-MH	20	2.333	46.664	0.540	1994	74610
Dorfmanite	$Na_2(HPO_4)(H_2O)_2$	PBCA	112	3.807	426.424	0.559	1990	108837
Dovyrenite	$Ca_{5.716}Zr(Si_2O_7)_2(OH)_4$	PNNM	28	2.950	82.606	0.614	2008	159687
Downeyite	SeO_2	P42/MBC	24	1.585	38.039	0.346	1992	72367
Doyleite	$Al(OH)_3$	P-1	10	2.322	23.219	0.699	2009	164049
Dozyite	$(Mg_7Al_2)(Si_4Al_2O_{15})(OH)_{12}$	C1M1	42	4.678	196.477	0.868	1995	77351
Dravite	$(Na_{0.66}Ca_{0.18})(Mg_{2.46}Al_{0.54})(Al_{5.64}Mg_{0.36})(BO_3)_3(Si_6O_{18})((OH)_{3.68}F_{0.12}O_{0.2})$	R3MH	53	3.637	192.747	0.635	2003	98377
Dreyerite	$Bi(VO_4)$	I41/AMDZ	12	1.252	15.020	0.349	1981	100733
Drugmanite	$Pb_2(Fe_{.78}Al_{.22})H(PO_4)_2(OH)_2$	P121/A1	32	3.125	100.000	0.625	1988	202794
Drysdallite	$MoSe_2$	P63/MMC	6	0.918	5.510	0.355	1986	49800
Dufrenite	$Mn_2(AsO_4)(OH)$	C12/C1	32	2.750	88.000	0.550	1970	34826
Dufrenoysite	$Pb_2As_2S_5$	P1211	72	5.170	372.235	0.838	1969	18122
Duftite	$PbCu(AsO_4)(OH)$	P212121	32	3.000	96.000	0.600	1998	54151
Dugganite	$Pb_3Zn_3TeAs_2O_{14}$	P321	23	2.588	59.513	0.572	1998	85574
Dukeite	$Bi_{24}Cr_8O_{57}(OH)_6(H_2O)_3$	P31C	196	5.111	1001.680	0.671	2000	89799
Dumontite	$Pb_2(UO_2)_3O_2(AsO_4)_2(H_2O)_5$	P121/M1	224	6.022	1348.848	0.771	2004	99733

Dumortierite	$(Al_{0.78}Mg_{0.09}Ti_{0.01})(Al_{5.70}Ti_{0.06}Fe_{0.04})((Si_{2.85}Al_{0.15})BO_{16})(O_{1.17}(OH)_{0.81}F_{0.02})$	PNMA	116	4.099	475.526	0.598	2005	152332
Dundasite	$PbAl_2(CO_3)_2(OH)_4(H_2O)$	PBNM	64	3.625	232.000	0.604	1972	9348
Durangite	$NaAl(AsO_4)F$	C12/C1	16	2.500	40.000	0.625	1938	30205
Dussertite. antimonian	$Ba(Fe_{0.84}Sb_{0.16})_3(AsO_4)_2((OH)_{5.96}(H_2O)_{0.04})$	R3-MH	20	2.333	46.664	0.540	1999	88934
Duttonite	$V_2O_4(H_2O)_2$	I12/C1	12	1.918	23.020	0.535	1958	16727
Dwornikite	$Ni(SO_4)(H_2O)$	C12/C1	18	2.503	45.059	0.600	1991	71347
Dyscrasite	$SbAg_3$	PMM2	4	2.000	8.000	1.000	1960	64716
Dzhalindite	$NaCa(PO_4)$	IM3-	84	4.392	368.955	0.687	1979	35629
Eakerite	$Ca_2SnAl_2Si_6O_{18}(OH)_2(H_2O)_2$	P121/A1	78	4.311	336.261	0.686	2007	240723
Ecandrewsite	$Zn(TiO_3)$	R3-R	10	1.371	13.710	0.413	1961	22382
Eckermannite. fluorian	$Na_{0.57}K_{0.33}(Ca_{0.4}Na_{1.6})(Mg_{3.1}Fe_{1.66}Ti_{0.21}Li_{0.03})(Si_{7.96}Al_{0.04}O_{22})((OH)_{1.18}F_{0.66}O_{0.16})$	C12/M1	42	3.773	158.477	0.700	1992	76901
Eclarite	$Cu_{0.5}Fe_{0.5}Pb_9Bi_{12}S_{28}$	PNMA	200	5.644	1128.771	0.738	1984	31382
Edenharterite	$TlPbAs_2(As_{0.93}Sb_{0.07})S_6$	FDD2	44	3.459	152.215	0.634	1996	83271
Edgarbaileyite	$Hg_6(Si_2O_7)$	C12/M1	15	2.440	36.603	0.625	1990	69123
Edgarite	$FeNb_3S_6$	P6322	20	1.571	31.419	0.363	1970	42687
Edingtonite 1O	$Ba_{2.02}(Al_{4.03}Si_{5.97}O_{20})(H_2O)_{7.81}$	P21212	40	3.422	136.877	0.643	1976	323
Edingtonite 1Q	$Ba_{1.952}(Al_{3.9}Si_{6.1}O_{20})(H_2O)_{7.4}$	P4-21M	56	3.164	177.212	0.545	1984	30689
Edoylerite	$Hg_3(CrO_4)S_2$	P21/C	40	3.322	132.877	0.624	1999	87733
Effenbergerite	$BaCu(Si_4O_{10})$	P4/NCCZ	64	2.375	152.000	0.396	1993	72614
Eglestonite	$(Hg_2)_3Cl_3O(OH)$	IA3-D	88	1.435	126.313	0.222	1992	71899
Ehrleite	$Ca_2ZnBe(PO_4)_2(PO_3OH)(H_2O)_4$	P-1	48	4.585	220.078	0.821	1987	202481
Eifelite (Mg-rich)	$NaKMg_5Si_{12}O_{30}$	P6/MCC	100	2.577	257.739	0.388	1980	23373

Eirikite	$KNa_6(Be_2(Si_{15}Al_3)O_{39}F_2)$	P3-M1	68	3.325	226.095	0.546	2010	180377
Eitelite	$Na_2Mg(CO_3)_2$	R3-H	11	1.686	18.544	0.487	1973	9518
Ekanite	$ThKNaCa(Si_8O_{20})$	P4/MCC	64	2.438	156.000	0.406	1972	2858
Ekanite	$ThCa_2(Si_8O_{20})$	I422	31	2.309	71.580	0.466	1982	64745
Ekatite	$(Fe_{10.14}Zn_{1.80})(AsO_3)_6(OH)_6(As_{1.536}Si_{0.492}O_6(OH)_{0.492})$	P63MC	62	3.187	197.572	0.535	2001	93001
Elbaite	$(Na_{1.69}Mn_{.45}Ca_{.42}B_{.05}K_{.01})(Al_{4.78}Li_{3.74}Mn_{.39}Fe_{.09})Al_{18}B_9(Si_{17.94}B_{.06})(O_{82.57}(OH)_{8.62}F_{1.81})$	R3MH	50	3.522	176.115	0.624	1972	9252
Eldfellite	$NaFe(SO_4)_2$	C12/M1	12	2.418	29.020	0.675	2009	166768
Electrum	(AgAu)	FM3-M	1	0.000	0.000	Nan	1978	104385
Ellenbergerite	$(Mg_{0.5}Ti_{0.5})_2Mg_6Al_6(Si_8O_{28})(OH)_{10}$	P63	68	3.689	250.850	0.606	1993	66681
Ellenbergerite	$(Mg_{0.61}Ti_{0.08})_2(Mg_{0.52}Al_{0.43})_{12}(SiO_3(O_{0.29}(OH)_{0.71}))_6((P_{0.71}Si_{0.2})O_3(OH))_2(OH)_6$	P63MC	72	3.384	243.627	0.548	2007	417393
Ellestadite	$Ca_4(Ca_{5.94}(OH)_{1.2}O_{0.5}Cl_{0.32})(SiO_4)_2(SO_4)_2(Si_{0.5}S_{0.5}O_4)_2$	P1121	42	4.392	184.477	0.815	1994	39775
Ellestadite-(Cl)	$Ca_{10}(SO_4)_3(SiO_4)_3Cl_2$	P63/M	42	2.653	111.419	0.492	2005	154205
Ellestadite-(F)	$Ca_{10}(SiO_4)_3(SO_4)_3F_2$	P63/M	42	2.653	111.419	0.492	2002	97203
Ellisite	Tl_3AsS_3	R3MR	7	1.449	10.142	0.516	1980	100292
Elpasolite	$K_2Na(AlF_6)$	FM3-M	10	1.571	15.710	0.473	1987	40886
Elpidite	$Na_2Zr(Si_6O_{15})(H_2O)_3$	PBCM	104	3.931	408.846	0.587	2011	180967
Elyite	$Pb_4Cu(SO_4)O_2(OH)_4(H_2O)$	P21/C	176	5.459	960.860	0.732	2000	89798
Emeleusite	$HNaCa_2(Si_3O_9)$	ACAM	32	4.000	128.000	0.800	1978	34945
Emerald	$(Al_{1.18}Cr_{0.52}Mg_{0.3})(Be_{2.70}Al_{0.30})Si_6O_{18}$	P6/MCC	58	2.072	120.175	0.354	2009	173809
Emilite	$Cu_{10.7}Pb_{10.7}Bi_{21.3}S_{48}$	PMC21	92	5.524	508.168	0.847	2002	94739

Emmonsite	$Fe_2(TeO_3)_3(H_2O)$	P-1	30	3.907	117.207	0.796	1972	9259
Emplectite	$CuBiS_2$	PNMA	16	2.000	32.000	0.500	2005	171052
Empressite	AgTe	PMNB	32	2.500	80.000	0.500	2004	55237
Enargite	$Cu_3(AsS_4)$	PMN21	16	2.500	40.000	0.625	2002	95547
Enstatite	$Mg(SiO_3)$	PBCA	80	3.322	265.754	0.525	1982	17053
Enstatite IV'10	$Mg_{39.36}Sc_{2.56}Si_{40.44}O_{124}$	P12/A1	208	5.739	1193.691	0.745	1984	60157
Enstatite IV'8	$Mg_{31.88}Sc_{2.72}Si_{32.04}O_{100}$	P12/A1	168	5.440	913.909	0.736	1984	60158
Enstatite IV'9	$Mg_{35.12}Sc_{2.92}Si_{36.24}O_{112}$	I12/A1	188	5.576	1048.263	0.738	1984	61501
Enstatite-IV-10	$(Mg_{38.63}Sc_{3.10})(Li_{1.16}Si_{.07})Si_{40}O_{124}$	P12/A1	208	5.739	1193.691	0.745	1984	29413
Enstatite-IV-8	$(Mg_{28.40}Sc_{4.62})Li_{1.33}Si_{32}O_{100}$	P12/A1	170	5.445	925.596	0.735	1984	29415
Enstatite-IV-9	$(Mg_{28.25}Sc_{3.81}Co_{4.36})(Li_{1.4}Si_{.49})Si_{36}O_{112}$	I12/A1	190	5.580	1060.273	0.737	1984	29414
Eosphorite	$(Fe_{0.2}Mn_{0.8})Al(PO_4)(OH)_2(H_2O)$	CMCA	56	3.236	181.212	0.557	1993	74292
Ephesite 2M1	$NaLi(Al_2(SiAl)_2O_{10}(OH)_2)$	C1C1	40	4.322	172.877	0.812	1985	30952
Ephesite 2M1	$Na(LiAl_2)(Si_2Al_2O_{10})(OH)_2$	C1	44	5.459	240.215	1.000	1987	68349
Epididymite	$Na_2(Be_2Si_6O_{15})(H_2O)$	PNMA	108	3.940	425.528	0.583	2008	160817
Epididymite. potassian	$K_2Be_2Si_6O_{15}$	CMC21	50	4.004	200.193	0.709	1976	60284
Epidote	$Ca_2Al_{2.16}Fe_{0.84}Si_3O_{13}H$	P121/M1	44	4.187	184.215	0.767	1973	10268
Epistilbite	$(Ca_{2.59}Na_{1.06}K_{0.1})(Al_{6.29}Si_{17.71}O_{48})(H_2O)_{15.74}$	C12/M1	47	3.980	187.066	0.717	1967	16995
Epistilbite	$Na_{0.95}Ca_{2.85}(Al_6Si_{18}O_{48})(H_2O)_{16}$	C121	46	4.741	218.084	0.858	1985	29539
Epistilbite	$Ca_{3.06}(Al_{6.18}Si_{17.82}O_{48})(H_2O)_{16}$	C1	48	5.585	268.078	1.000	1996	82770
Epistolite	$(Na_{3.79}Ca_{0.27}Mn_{0.04})(Nb_{1.92}Ti_{0.04}Fe_{0.04})Ti(Si_2O_7)_2O_2((OH)_{1.44}F_{0.56})(H_2O)_4$	P-1	34	4.146	140.974	0.815	2004	54836
Epsomite	$Mg(SO_4)(H_2O)_7$	P212121	108	4.755	513.528	0.704	1984	29384

Ercitite	$(Na_{1.78}Ca_{0.08})(H_2O)_4((Mn_{1.06}Fe_{0.92}Al_{0.02})Mn_{0.14}(OH)_2(PO_4)_2)$	CMCA	52	3.239	168.423	0.568	2009	163140
Erdite	$NaFeS_2(H_2O)_2$	C12/C1	12	1.918	23.020	0.535	1980	100181
Eriochalcite	$CuCl_2(H_2O)_2$	PBMN	18	1.837	33.059	0.440	1989	40290
Erionite	$Ca_2(Al_4Si_{32}O_{72})(H_2O)_4$	P63/MMC	114	3.033	345.774	0.444	1969	23491
Erionite-K	$K_{2.76}Na_2Ca_{0.86}Mg_{1.12}Mn_{0.02}((Al_{6.77}Si_{29.23})O_{72})(H_2O)_{30.54}$	P63/MMC	150	3.561	534.088	0.493	2009	164668
Erlichmanite	OsS_2	PA3-	12	0.918	11.020	0.256	1992	300224
Erniggliite	$Tl_2Sn(As_2S_6)$	P3-	11	1.686	18.544	0.487	1992	300252
Ershovite	$Na_4K_3(Fe_{0.9}Mn_{0.7}Ti_{0.4}Mg_{0.1})Si_8O_{22}(H_2O)_7$	P-1	57	4.850	276.475	0.832	1991	39449
Erythrite (Mg)	$(Co_{2.16}Ni_{0.24}Mg_{0.60})(AsO_4)_2(H_2O)_8$	C12/M1	37	3.480	128.750	0.668	2007	417736
Erythrosiderite	$K_2(FeCl_5(H_2O))$	PNMA	44	2.914	128.215	0.534	1995	79783
Eskebornite	$CuFeSe_2$	P4-2C	16	1.750	28.000	0.438	1992	73376
Eskolaite	Cr_2O_3	R3-CH	10	0.971	9.710	0.292	1962	25781
Esperanzaite	$NaCa_2Al_2(AsO_4)_2F_4(OH)(H_2O)_2$	P121/M1	44	3.823	168.215	0.700	1999	56961
Esperite	$PbCa_2Zn_3(SiO_4)_3$	P121/N1	84	4.392	368.955	0.687	2010	168082
Esseneite	$CaFe_{.6}Al_{1.34}Si_{1.08}O_6$	C12/C1	20	2.522	50.439	0.584	1987	202160
Estilbite	$Ca_{.36}(Al_{.726}Si_{2.274})O_6(H_2O)_{1.945}$	C12/M1	48	4.043	194.078	0.724	2003	172072
Ettringite	$Ca_6Al_2(SO_4)_3(OH)_{12}(H_2O)_{26}$	P31C	256	5.514	1411.609	0.689	2006	155395
Eucairite	AgCuSe	P4/NMMZ	6	1.585	9.510	0.613	1957	44608
Euchlorine	$NaKCu_3O(SO_4)_3$	C12/C1	84	4.440	372.955	0.695	1990	69451
Euchroite	$Cu_2(AsO_4)(OH)(H_2O)_3$	P212121	44	3.459	152.215	0.634	1989	65698
Euclase	$BeAl(SiO_4)(OH)$	P121/A1	32	3.000	96.000	0.600	1986	202097
Eucryptite	$Li(AlSiO_4)$	R3-H	42	2.807	117.909	0.521	1989	67237

Eucryptite alpha	$Li(AlSiO_4)$	R3H	42	3.807	159.909	0.706	2001	92708
Eucryptite beta	$Li(AlSiO_4)$	P6422	81	3.051	247.146	0.481	2004	55665
Eucryptite gamma	$Li(AlSiO_4)$	P1A1	28	3.807	106.606	0.792	1990	66137
Eudialyte	$Na_{12}Ca_6Fe_3Zr_3(Si_{24}O_{66})(OH)_5Cl$	R3MH	125	5.012	626.528	0.720	1972	9503
Eudialyte	$Na_{12}Ca_6Fe_3Zr_{3.7}(Si_{24}O_{69}(OH)_3)Cl_{1.4}$	R3-MH	124	4.082	506.125	0.587	1971	23643
Eudidymite	$Na_2Be_2(Si_6O_{15})(H_2O)$	C12/C1	56	3.879	217.212	0.668	2008	160818
Eugenite	$Au_{0.8}Hg_{0.2}$	FM3-M	1	0.000	0.000	Nan	1945	58474
Eulytine	$Bi_4(SiO_4)_3$	I4-3D	38	1.312	49.872	0.250	1997	402349
Eulytite	$Pb_3V(PO_4)_3$	I4-3D	32	0.811	25.961	0.162	2005	171404
Euxenite-(Y)	$Y(Nb_{0.5}Ti_{0.5})_2O_6$	PBCN	36	2.281	82.117	0.441	1980	100175
Eveite	$Mn_3Zn_2(OH)_6((As_{0.5}H_{0.5})(O_{0.667}(OH)_{0.333})_3)_2$	PNNM	19	3.301	62.711	0.777	1968	34823
Ewaldite	$BaCa(CO_3)_2(H_2O)_{2.6}$	P63MC	20	2.371	47.419	0.549	1992	39780
Ezcurrite	$Na_4(B_5O_7(OH)_3)_2(H_2O)_4$	P-1	48	4.585	220.078	0.821	1973	10278
Fabianite	$Ca(B_3O_5)(OH)$	P121/A1	40	3.322	132.877	0.624	1970	14254
Fairchildite	$K_2Ca(CO_3)_2$	P63/MMC	20	2.446	48.929	0.566	1981	100845
Fairfieldite	$Ca_2Mn(PO_4)_2(H_2O)_2$	P-1	19	3.301	62.711	0.777	2006	156225
Faizievite	$(K_{1.93}Na_{0.86}Rb_{0.03}Ba_{0.04})Li_6(Ca_{6.16}Sr_{0.17}Na_{0.67})Ti_4(Si_6O_{18})_2(Si_{12}O_{30})F_2$	P-1	113	5.829	658.680	0.855	2008	160000
Famatinite	$Cu_3(SbS_4)$	I4-2M	8	1.750	14.000	0.583	1972	2857
Fangite	Tl_3AsS_4	PCMN	32	2.500	80.000	0.500	1978	41702
Fantappieite	$(Na_{79.84}Ca_{29.2}K_{14.78})(Al_{96}Si_{102}O_{396})(SO_4)_{31}Cl_2(H_2O)_{10}$	P3-	821	7.245	5948.330	0.748	2010	168131
Farneseite	$(Na_{35.65}K_{9.18}Ca_{8.52})(Al_{42}Si_{42}O_{168})(SO_4)_{10.73}F_{0.16}Cl_{0.48}(H_2O)_{3.03}$	P63/M	394	5.315	2094.012	0.616	2005	155057
Farringtonite	$Mg_3(PO_4)_2$	P121/N1	26	2.777	72.211	0.591	1968	31005

Fassaite	$Ca_{0.968}Mg_{0.578}Fe_{0.230}Ti_{0.059}Al_{0.433}Si_{1.728}O_6$	C12/C1	20	2.522	50.439	0.584	1977	200138
Faujasite	$Na_{71}((Si_{121}Al_{71})O_{384})$	FD3-MZ	208	2.776	577.379	0.360	2006	416357
Faustite	$Zn_{0.927}Al_6(PO_4)_4(OH)_8(H_2O)_4$	P-1	55	4.800	263.975	0.830	2000	91739
Fayalite	Fe_2SiO_4	PBNM	28	2.522	70.606	0.525	1975	4353
Fayalite (vacancy-bearing)	$Fe_2(SiO_4)$	P-1	28	3.950	110.606	0.822	2010	169083
Febefsite	$Fe_3(BeSi_3O_9)(OH)_2$	PNA21	72	4.170	300.235	0.676	1970	20135
Fedorite	$(Na_{1.29}K_{0.79})(Ca_{4.48}Na_{2.52})Si_{16}O_{38}F_2(H_2O)_{3.47}$	P-1	70	5.158	361.050	0.842	2001	95287
Fedotovite	$K_2Cu_3O(SO_4)_3$	C12/C1	84	4.440	372.955	0.695	1991	71792
Feklichevite. carbonateous	$(Na_{10.22}Ce_{0.11}Ca_{4.05}K_{0.24})Ca_6Zr_3(Fe_{2.01}Mn_{0.3})(Nb_{0.41}Si_{0.71}Ti_{0.1})(Si_3O_9)_2(Si_9O_{27})_2(OH)_{2.74}(CO_3)_{0.94}Cl_{0.49}(H_2O)_{0.54}$	R3MH	138	5.201	717.761	0.732	2005	152317
Felbertalite	$Cu_2Pb_6Bi_8S_{19}$	C12/M1	35	4.158	145.525	0.811	2000	411110
Felsoebanyaite	$Al_4(SO_4)(OH)_{10}(H_2O)_4$	P1211	92	5.524	508.168	0.847	1997	85074
Fenaksite	$KNaFe(Si_4O_{10})$	P-1	34	4.087	138.974	0.803	2009	260175
Fencooperite	$Ba_6Fe_3Si_8O_{23}(CO_3)_2(Cl_{0.54}(OH)_{0.46})_3(H_2O)$	P3M1	52	4.098	213.100	0.719	2001	92798
Ferberite	$Fe(WO_4)$	P12/C1	12	1.918	23.020	0.535	1971	15193
Ferchromide	$(Cr_{0.7}Fe_{0.3})$	IM3-M	1	0.000	0.000	Nan	1983	102754
Ferdisilicite	$FeSi_2$	P4/MMM	3	0.918	2.755	0.579	1960	24360
Fergusonite-(Y)	$Y(NbO_4)$	C12/C1	12	1.918	23.020	0.535	1981	20335
Fermorite	$(Ca_{8.4}Sr_{1.6})(AsO_4)_{2.58}(PO_4)_{3.42}(F_{0.69}(OH)_{1.31})$	P1121/M	42	4.011	168.477	0.744	1991	71351
Fernandinite	$Ca_{1.44}(V_{7.6}Fe_{0.4}O_{20})(H_2O)_4$	C12/M1	15	2.974	44.603	0.761	1994	79139
Feroxyhyte	$FeO(OH)$	P3-M1	6	1.918	11.510	0.742	1983	38299
Ferrarisite	$Ca_5(HAsO_4)_2(AsO_4)_2(H_2O)_9$	P-1	49	4.635	227.121	0.826	1980	200781

Ferri-clinoferroholmquistite	$Na_{0.32}Li_{0.95}Ca_{0.01}(Mg_{0.51}Fe_{0.49})(Fe_{0.86}Al_{0.13}Zn_{0.01})(Li_{0.14}Mn_{0.07}Fe_{0.27}Mg_{0.02})Si_4O_{11}(OH)_{0.9}F_{0.1}$	C12/M1	42	3.773	158.477	0.700	2003	171958
Ferri-clinoholmquistite	$(Na_{0.43}K_{0.03})(Li_{1.66}Na_{0.30}Ca_{0.04})(Mg_{1.21}Fe_{0.79})(Fe_{1.66}Al_{0.2}Ti_{0.12}Zn_{0.02})(Li_{0.49}Fe_{0.44}Mn_{0.07})(Si_8O_{22})(OH)_{1.58}F_{0.42}$	C12/M1	42	3.773	158.477	0.700	1998	85532
Ferri-eckermannite. lithian	$(Na_{0.55}K_{0.2})(Na_{1.85}Ca_{0.15})(Li_{0.25}Mg_{3.4}Al_{0.1}Fe_{1.25})(Si_8O_{22})F_{0.4}(OH)_{1.6}$	C12/M1	42	3.773	158.477	0.700	1994	64847
Ferri-eckermannite. lithian	$(Na_{0.56}K_{0.18})(Na_{1.9}Ca_{0.1})(Li_{0.24}Mg_{3.34}Al_{0.08}Fe_{1.3}Ti_{0.04})(Si_{7.94}Al_{0.06})O_{22}F_{0.42}(OH)_{1.58}$	C12/M1	42	3.773	158.477	0.700	1994	64848
Ferri-ferropedrizite. sodian	$(Na_{0.53}K_{0.03})(Fe_{0.30}Ca_{0.01}Na_{0.03})(Li_{0.61}Ca_{0.01}Na_{0.04})(Mg_{0.5}Fe_{0.5})(Fe_{0.83}Al_{0.11}Ti_{0.06})(Li_{0.29}Mn_{0.175}Fe_{0.035})Si_4O_{11}((OH)_{0.72}F_{0.28})$	C12/M1	43	3.798	163.329	0.700	2003	171957
Ferri-ottoliniite	$(K_{0.07}Na_{0.38})(Na_{0.70}Li_{1.24}Ca_{0.06})(Mg_{1.35}Fe_{2.63}Mn_{0.13}Zn_{0.31}Al_{0.10}Ti_{0.06}Li_{0.42})(Si_8O_{22}((OH)_{1.51}F_{0.47}))$	C12/M1	42	3.773	158.477	0.700	2004	55281
Ferriallanite-(Ce)	$(Ca_{0.97}Ce_{0.03})(Ce_{0.89}Ca_{0.11})(Fe_{0.8}Ti_{0.14}Al_{0.06})(Al_{0.56}Fe_{0.44})(Fe_{0.93}Mn_{0.07})(Si_{0.94}Al_{0.06}O_4)(Si_2O_7)O(OH)$	P121/M1	44	4.187	184.215	0.767	2003	96618
Ferriannite 1M (Cs-exchanged)	$Cs_{0.968}Fe_{2.948}((Fe_{0.219}Si_{0.781})_4O_{10})(OH)_2$	C12/M1	22	3.005	66.107	0.674	1996	82499
Ferricopiapite	$Fe_{4.619}(SO_4)_6(OH)_2(H_2O)_{20}$	P-1	57	4.850	276.475	0.832	2006	156673
Ferridiopside	$Ca_{1.005}(Mg_{0.951}Fe_{0.049})((Si_{1.946}Fe_{0.054})O_6)$	C12/C1	20	2.522	50.439	0.584	1998	85686
Ferrierite	$(Na_{0.2}K_{0.8})Ca_{0.5}Mg_2(Al_7Si_{29}O_{72})(H_2O)_{22.64}$	IMMM	73	4.053	295.857	0.655	1984	30929
Ferrihydrite	$Fe_{1.44}O_{0.32}(OH)_{3.68}$	P3M1	6	2.585	15.510	1.000	1988	56287
Ferrihydrite	$Fe_{1.56}(O_{2.3}(OH)_{0.08})$	P3-1C	8	1.500	12.000	0.500	2002	97586
Ferrihydrite	$Fe_{0.96}(O_{0.88}(OH)_{1.12})$	P3	4	2.000	8.000	1.000	2002	97587
Ferrihydrite	$Fe_{9.86}O_{14}(OH)_2$	P63MC	26	2.603	67.682	0.554	2007	158475
Ferrilotharmeyerite	$Ca(Fe_{0.95}Zn_{1.05})(AsO_4)_2(OH)_{0.9}(H_2O)_{1.1}$	C12/M1	15	2.707	40.603	0.693	1998	76614
Ferrinatrite	$Na_3(Fe(SO_4)_3)(H_2O)_3$	P3-	132	4.547	600.155	0.645	1977	200125

Ferripedrizite	$(Na_{0.52}K_{0.04})(Li_{1.7}Na_{0.25}Ca_{0.05})(Mg_{1.49}Fe_{2.49}Al_{0.21}Ti_{0.09}Zn_{0.01}Li_{0.64}Mn_{0.07})Si_8O_{22}((OH)_{1.31}F_{0.69})$	C12/M1	42	3.773	158.477	0.700	2002	94668
Ferrisicklerite	$Li(Mg_{0.5}Mn_{0.2}Fe_{0.3})_2(PO_4)_2$	PBNM	28	2.522	70.606	0.525	1989	71764
Ferritapiolite	$Fe(Fe_{.25}Ta_{.75})_2O_6$	P42/MNM	18	1.837	33.059	0.440	1976	27944
Ferritaramite. potassian	$Na_{2.09}Ca_{1.178}Mn_{.032}Mg_{.92}Fe_{4.07}(Si_{6.2}Al_{1.8}O_{20.7})(OH)_{3.3}$	C12/M1	40	3.672	146.877	0.690	1978	200394
Ferritungstite	$((H_2O)_{0.59}Ca_{0.06}Na_{0.02})(W_{1.46}Fe_{0.54})(O_{4.70}(OH)_{1.30})((H_2O)_{0.80}K_{0.20})$	FD3-MZ	22	1.686	37.088	0.378	1994	79158
Ferriwhittakerite	$(K_{0.13}Na_{0.64})(Na_{1.27}Li_{0.62}Ca_{0.11})(Mg_{1.47}Fe_{2.06}Mn_{0.12}Zn_{0.4}Al_{0.1}Ti_{0.12}Li_{0.73})(Si_8O_{22}((OH)_{1.30}F_{0.72}))$	C12/M1	45	3.892	175.133	0.709	2004	55282
Ferro-actinolite	$(Fe_{3.980}Mn_{0.196}Mg_{0.846}Ti_{0.002}Ca_{1.970}Na_{0.003})(Si_{7.974}Al_{0.018})(Na_{0.011}K_{0.022})O_{22.12}(OH)_{1.880}$	C12/M1	43	3.798	163.329	0.700	1998	86601
Ferrobustamite	$(CaFe)(SiO_3)_2$	A1-	30	3.974	119.207	0.810	1973	9297
Ferrocarpholite	$(Fe_{0.76}Mg_{0.24})_2Al_4(Si_4O_{12})(OH)_8$	CCCAZ	76	3.406	258.842	0.545	1992	72894
Ferroglaucophane	$(Na_{1.72}Ca_{.15}Mg_{.13})(Fe_{0.795}Mg_{0.205})(Fe_{1.17}Mg_{0.696}Al_{0.134})(Al_{1.688}Fe_{0.312})(Al_{0.08}Si_{7.92}O_{22})(OH)_2$	C12/M1	39	3.593	140.131	0.680	1979	27814
Ferrohoegbomite 2N2S	$(Fe_{1.2}Ti_{0.8})Al_{14}((Fe_{0.765}Zn_{0.235})_4(Al_{0.461}Mg_{0.539})_2)O_{30}(OH)_2$	P63MC	54	3.698	199.705	0.643	2002	97033
Ferroholmquistite	$(Na_{0.01}K_{0.01})(Li_{1.88}Mg_{0.08}Na_{0.03}Fe_{0.01})(MgFe_{0.98}Mn_{0.01})(Al_{1.89}Fe_{0.11})(Fe_{0.61}Mg_{0.39})Si_8O_{22}((OH)_{1.97}F_{0.03})$	PNMA	164	4.528	742.639	0.615	2005	171900
Ferrohornblende	$NaCa_2Fe_5Si_8O_{22}(OH)_2$	C12/M1	40	3.672	146.877	0.690	1987	68063
Ferrokinoshitalite 1M	$(Ba_{0.47}K_{0.33}Na_{0.04})(Fe_{1.87}Mg_{0.74}Mn_{0.08}Ti_{0.17})(Si_{2.44}Al_{1.56})O_{10}((OH)_{1.35}F_{0.65})$	C12/M1	20	2.822	56.439	0.653	1999	87740
Ferronickelplatinum	$FeNiPt_2$	P4/MMM	4	1.500	6.000	0.750	1978	42564
Ferronigerite-2N1S	$Al_{9.25}Sn_2(Al_{0.4}Fe_{0.88}Zn_{0.72})(Al_{1.22}Fe_{0.78})O_{22}(OH)_2$	P3-M1	42	3.469	145.683	0.643	1995	39902
Ferronigerite-6N6S	$Al_{14.9}Sn_2Fe_{2.8}Zn_{1.4}O_{30}(OH)_2$	R3-MH	54	3.809	205.705	0.662	1979	64893

Ferronordite-(Ce)	$(Na_{2.901}Ca_{0.099})(Sr_{0.98}Ba_{0.02})(Ce_{0.51}La_{0.42}Nd_{0.04}Pr_{0.03})(Mn_{0.26}Zn_{0.22}Mg_{0.1}Fe_{0.42})Si_6O_{17}$	PCCA	116	4.030	467.526	0.588	1999	88886
Ferropargasite	$(Na_{0.3}K_{0.4})(Ca_{1.94}Na_{0.06})(Mg_{1.84}Fe_{2.78}Al_{0.38})(Si_{6.08}Al_{1.92}O_{22})(OH)_{1.72}F_{0.28}$	C12/M1	42	3.773	158.477	0.700	1993	64809
Ferropedrizite. sodian	$Na_{0.73}(Li_{1.35}Na_{0.6}Ca_{0.05})(Li_{0.84}Mg_{1.77}Fe_{2.07}Al_{0.21}Ti_{0.11})Si_8O_{22}((OH)_{1.16}F_{0.84})$	C12/M1	43	3.798	163.329	0.700	2000	89815
Ferropericlase	$(Fe_{0.2}Mg_{0.8})O$	FM3-M	2	1.000	2.000	1.000	2006	155819
Ferropericlase	$(Fe_{0.2}Mg_{0.8})O$	R3-MR	2	1.000	2.000	1.000	2006	155820
Ferrorosemaryite	$(Mn_{0.366}Na_{0.325})(Fe_{0.911}Na_{0.088})(Al_{0.708}Fe_{0.296})(Fe_{0.791}Al_{0.215})(PO_4)_3$	P121/N1	86	4.496	386.659	0.700	2005	155055
Ferroselite	$FeSe_2$	PNNM	6	0.918	5.510	0.355	1974	42115
Ferrosilite	$Fe(SiO_3)$	PBCA	80	3.322	265.754	0.525	1982	17055
Ferrosilite	$Fe(SiO_3)$	C12/C1	20	2.522	50.439	0.584	2004	159524
Ferrosilite III	$Ca_3(AsO_4)_2(H_2O)_{10}$	P-1	46	4.524	208.084	0.819	1983	36047
Ferrotschermakite	$(Na_{.23}K_{.14}Ca_{1.86})(Mg_{1.22}Fe_{2.10}Mn_{.02}Ti_{.10}Fe_{.30}Al_{1.30})Al_2Si_6O_{22}(OH)_2$	C12/M1	43	3.798	163.329	0.700	1973	9222
Ferrotychite	$Na_6Fe_2(SO_4)(CO_3)_4$	FD3-Z	58	2.219	128.704	0.379	1979	20169
Ferrowyllieite	$Na_{4.6}CaMnFe_8MgAl_3(PO_4)_{12}$	P121/N1	80	4.372	349.754	0.692	1974	6203
Ferruccite	$Fe(SiO_3)$	CMCM	90	5.492	494.267	0.846	1968	36049
Fersilicite	FeSi	P213	8	1.000	8.000	0.333	1997	402761
Fersmanite	$(Ca_{5.49}Na_{2.37}Sr_{0.08}Fe_{0.06})(Nb_{1.61}Ti_{2.39})(Si_2O_7)_2O_8F_3$	C12/C1	82	4.431	363.319	0.697	2002	161641
Fersmite	$(Ca_{0.95}La_{0.05})Nb_{1.99}O_6$	PCAN	36	2.281	82.117	0.441	1993	77474
Fersmite	$(Ca_{0.89}Ce_{0.11})(Nb_{1.3}Ti_{0.7})O_5(O_{0.41}(OH)_{0.59})$	PCAN	36	2.281	82.117	0.441	2001	93935
Feruvite	$(Na_{0.4}Ca_{0.62})(Mg_{1.22}Fe_{1.7}Al_{0.08})(Al_{4.72}Fe_{0.28}Mg_{0.82}Ti_{0.18})(BO_3)_3((Si_{5.77}B_{0.12}Ti_{0.1})O_{18})(O_{0.36}(OH)_{0.64})(OH)_3$	R3MH	55	3.766	207.142	0.651	1993	74184

Fetiasite	$Fe_{2.38}Ti_{0.58}O_2(As_2O_5)$	P121/M1	26	3.700	96.211	0.787	1994	75308
Fettelite	$(Ag_{10}Hg(As_{1.6}Sb_{0.4})S_8)(Ag_6As_2S_7)$	C121	144	6.212	894.469	0.866	2009	162943
Fianelite	$Mn_2(V(V_{0.62}As_{0.38})O_7)(H_2O)_2$	P121/N1	52	3.700	192.423	0.649	1996	82414
Fibroferrite	$Fe(OH)(SO_4)(H_2O)_5$	R3-H	72	3.585	258.117	0.581	1981	158909
Fichtelite	$C_{19}H_{34}$	P1211	106	5.728	607.160	0.851	1995	56911
Fiedlerite 1A	$Pb_3Cl_4F(OH)(H_2O)$	P-1	20	3.322	66.439	0.769	1994	75547
Fiedlerite 2M	$Pb_3Cl_4F(OH)(H_2O)$	P121/A1	40	3.322	132.877	0.624	1994	75548
Filatovite	$(K_{0.9}Na_{0.1})((Al_{1.9}Zn_{0.1})(As_{1.1}Si_{0.9})O_8)$	I12/C1	52	3.700	192.423	0.649	2004	54889
Filipstadite (subcell)	$(Mn_{1.25}Mg_{0.75})(Fe_{0.5}Sb_{0.5})O_4$	FD3-MS	14	1.379	19.303	0.362	1988	56389
Fillowite. magnesian	$Na_{1.667}Ca(Mn_{5.333}MgFe)(PO_4)_6$	R3-H	240	5.410	1298.282	0.684	2005	154029
Fingerite	$Cu_{11}O_2(VO_4)_6$	P-1	43	4.450	191.329	0.820	1985	201626
Finnemanite	$Pb_{10}(AsO_3)_6Cl_2$	P63/M	36	2.405	86.568	0.465	2008	241164
Fischesserite	Ag_3AuSe_2	I4132	24	1.459	35.020	0.318	2004	171959
Fizelyite	$Ag_{5.94}Pb_{13.74}Sb_{20.84}S_{48}$	P121/N1	92	4.524	416.168	0.693	2009	166098
Flagstaffite	$(C_{10}H_{20}O_2)(H_2O)$	FDD2	140	5.129	718.100	0.719	1988	58242
Fleischerite	$Pb_3(Ge(OH)_6)(SO_4)_2(H_2O)_3$	P6-2C	48	2.730	131.020	0.489	1975	4295
Flinkite	$Mn_3(AsO_4)(OH)_4$	PNMA	64	3.250	208.000	0.542	2001	280785
Floerkeite	$K_3Ca_2Na(Al_8Si_8O_{32})(H_2O)_{12}$	P-1	120	5.907	708.827	0.855	2009	164876
Florencite-(Ce)	$Al_3(Ce_{0.54}La_{0.27}Nd_{0.11}Sm_{0.04}Ca_{0.04})(PO_4)_2(OH)_6$	R3-MH	26	2.574	66.927	0.548	1990	69214
Florenskyite	$Fe(Ti_{0.87}Ni_{0.13}Cr_{0.03}V_{0.02}Co_{0.01})(P_{0.97}Si_{0.03})$	PNMA	12	1.585	19.020	0.442	2000	89711
Florensovite	$Cr_2(CuS_4)$	FD3-MS	14	1.379	19.303	0.362	1966	53111
Fluckite	$CaMn(HAsO_4)_2(H_2O)_2$	P-1	40	4.322	172.877	0.812	1980	200702
Fluellite	$Mg_{3.41}(Al_{1.14}Si_{2.86}O_{10})(OH)_2(H_2O)_{3.72}$	FDDDZ	52	3.854	200.423	0.676	1966	34812

Fluoborite	$Mg_3(BO_3)(OH)_{2.04}F_{0.96}$	P63/M	26	2.237	58.172	0.476	2007	162465
Fluocerite-(Ce)	CeF_3	P3-C1	24	1.730	41.510	0.377	2005	155555
Fluocerite-(La)	LaF_3	P3-C1	24	1.730	41.510	0.377	1976	3
Fluor-chlor-apatite	$Ca_5(PO_4)_3((OH)_{0.1}Cl_{0.4}F_{0.5})$	P63/M	46	2.848	131.025	0.516	2008	159077
Fluor-edenite (K-rich)	$K_{0.33}Na_{1.22}Ca_{1.65}Sr_{0.01}Mg_{3.74}Fe_{0.85}Mn_{0.04}Ti_{0.16}(Si_{6.94}Al_{1.06}O_{22})F_2$	C12/M1	40	3.672	146.877	0.690	1995	39894
Fluor-phlogopite 1M	$KMg_3AlSi_3O_{10}F_2$	C12/M1	20	2.822	56.439	0.653	1973	10272
Fluor-phlogopite 1M. lithian	$K_{.86}Mg_{2.31}Li_{.69}Al_{.16}Si_{3.84}O_{10}F_2$	C1	80	6.322	505.754	1.000	1967	24908
Fluor-polylithionite 1M	$KAlLi_2(Si_4O_{10})F_2$	C12/M1	20	2.822	56.439	0.653	1969	34336
Fluorannite	$(K_{0.96}Na_{0.02}Ba_{0.001})(Fe_{2.527}Cr_{0.0021}Mg_{0.039}Li_{0.085}Ti_{0.21}Mn_{0.057})(Al_{0.674}Si_{3.326})O_{10}(F_{1.06}(OH)_{0.028}O_{0.912})$	C12/M1	20	2.822	56.439	0.653	2007	163499
Fluorapatite. strontium	$Sr_5(PO_4)_3F$	P63/M	42	2.653	111.419	0.492	2007	160666
Fluorarfvedsonite	$(Na_{0.48}K_{0.26})Na_2(Li_{0.36}Mg_{0.2}Fe_{3.67}Mn_{0.67}Zn_{0.1})(Si_{7.88}Al_{0.12})O_{22}F_{1.2}(OH)_{0.8}$	C12/M1	42	3.773	158.477	0.700	1993	64820
Fluorcaphite	$Ca_{3.295}Sr_{1.044}Na_{.195}La_{.175}Ce_{.185}Nd_{.066}Pr_{.04}(PO_4)_3F_{.749}(OH)_{0.251}$	P63	42	3.034	127.419	0.563	2005	171039
Fluorite	CaF_2	FM3-M	3	0.918	2.755	0.579	1953	28730
Fluoro-eckermannite	$Na_{0.98}(Na_{1.1}Mg_{0.9})Mg_3(Mg_{1.88}Al_{0.12})(Si_8O_{22}F_2)$	C12/M1	41	3.699	151.660	0.690	1999	87639
Fluoro-edenite	$Na(Ca_{1.42}Na_{0.14}Mn_{0.44})(Mg_{4.35}Mn_{0.47}Al_{0.18})((Al_{1.04}Si_{6.96})O_{22})F_2$	C12/M1	40	3.672	146.877	0.690	1997	66848
Fluoro-ferroleakeite	$(Na_{0.67}K_{0.24})Na_2(Li_{0.64}Mg_{0.54}Fe_{1.12}Zn_{0.06}Mn_{0.7}Fe_{1.94})(Si_{7.76}Al_{0.24})O_{22}F_{1.7}(OH)_{0.3}$	C12/M1	40	3.672	146.877	0.690	1993	64815
Fluoro-magnesiohastingsite	$(Na_{0.51}K_{0.21}Ca_{0.19})Ca_2(Mg_{1.77}Ti_{0.09}Al_{0.08}Fe_{0.06})(Mg_{1.38}Fe_{0.62})(Mg_{0.88}Al_{0.05}Ti_{0.04}Fe_{0.03})((Si_{5.93}Al_{2.07})O_{22})F_2$	C12/M1	41	3.699	151.660	0.690	2006	156788

Fluoro-magnesiokatophorite (Al-substituted)	$Na_{0.82}(Na_{0.26}Ca_{1.67}Mg_{0.07})(Mg_{4.98}Al_{0.02})(Si_{7.42}Al_{0.58})O_{22}F_2$	C12/M1	41	3.699	151.660	0.690	1998	87432
Fluoro-sodic-ferropedrizite	$Na_{0.68}(Li_{1.92}Na_{0.05}Ca_{0.03})(Fe_{1.16}Mg_{1.10}Mn_{0.08}Zn_{0.02}Al_{1.97}Ti_{0.01}Li_{0.66})((Si_{7.98}Al_{0.02})O_{22}(F_{1.03}(OH)_{0.97}))$	C12/M1	42	3.773	158.477	0.700	2009	166774
Fluoro-sodic-pedrizite	$(Na_{0.64}K_{0.01})(Li_{1.93}Ca_{0.04}Na_{0.03})(Mg_{1.69}Fe_{0.31})(Al_{1.98}Cr_{0.01}Zn_{0.01})(Li_{0.64}Fe_{0.21}Mg_{0.13}Mn_{0.02})(Si_{3.96}Al_{0.04})Si_4O_{22}(F_{0.9}(OH)_{1.10})$	C12/M1	41	3.699	151.660	0.690	2005	171078
Fluorocannilloite	$(Na_{0.35}K_{0.15}Ca_{0.48})(Ca_{1.94}Mn_{0.06})(Mg_{3.66}Fe_{0.48}Al_{0.86})(Si_{5.64}Al_{2.36})O_{22}F_{1.34}(OH)_{0.66}$	C12/M1	40	3.672	146.877	0.690	1996	64837
Fluorokataphorite	$Na_{0.82}(Ca_{1.72}Na_{0.28})(Mg_{4.98}Al_{0.02})(Si_{7.42}Al_{0.58}O_{22})F_2$	C12/M1	41	3.699	151.660	0.690	1998	76920
Fluoronyboeite	$(Na_{0.78}K_{0.06})(Na_{1.53}Ca_{0.47})(Fe_{1.21}Mg_{2.55}Mn_{0.01}Zn_{0.01}Al_{1.21}Ti_{0.01})((Si_{7.14}Al_{0.86})O_{22}((OH)_{0.84}F_{1.16}))$	C12/M1	43	3.798	163.329	0.700	2003	98371
Fluoropargasite	$(Na_{0.87}Ca_{0.13})(Ca_{1.51}Mn_{0.49})(Mg_{3.38}Mn_{0.73}Al_{0.86})((Al_2Si_6)O_{22})F_2$	C12/M1	40	3.672	146.877	0.690	1997	66849
Fluorophlogopite	$KMg_3((Si_3Al)O_{10}F_2)$	C12/M1	20	2.822	56.439	0.653	2007	158179
Fluoropotassichastingsite	$(K_{0.61}Na_{0.11}Ca_{0.05})(K_{0.02}Ca_{0.01})(Ca_{1.85}Na_{0.04})Mn_{0.03}(Fe_{0.55}Mg_{0.45})(Fe_{1.23}Mg_{0.27}Al_{0.51})(Fe_{1.06}Mg_{0.92}Al_{0.02})((Si_{6.44}Al_{1.54})O_{22}(F_{1.11}(OH)_{0.73}Cl_{0.16}))$	C12/M1	41	3.699	151.660	0.690	2009	164859
Fluororichterite	$Na_{0.32}K_{0.18}(Mg_{1.94}Fe_{0.06})(Al_{0.01}Fe_{0.18}Mn_{0.01}Mg_{1.8})(Mg_{0.97}Fe_{0.03})(Ca_{1.46}Na_{0.54})((Si_{7.90}Al_{0.1})O_{22}((OH)_{1.29}F_{0.71}))$	C12/M1	42	3.773	158.477	0.700	2006	156220
Fluorotaramite. magnesian	$Na_{0.92}(Na_{1.21}Ca_{0.79})(Mg_{2.42}Fe_{1.7}Al_{0.86}Ti_{0.02})(Si_{6.6}Al_{1.4})O_{22}F_{1.02}(OH)_{.98}$	C12/M1	42	3.773	158.477	0.700	1996	64883
Fluorotremolite	$Na_{0.18}K_{0.18}(Mg_{1.93}Fe_{0.07})(Fe_{0.15}Mn_{0.02}Mg_{1.83})(Mg_{0.94}Fe_{0.03}Al_{0.03})(Ca_{1.61}Na_{0.39})(Si_8O_{22}((OH)_{1.42}F_{0.58}))$	C12/M1	42	3.773	158.477	0.700	2006	156219
Fluorovanadinite	$(Pb_{1.56}Ca_{2.44})(Pb_{3.06}Ca_{2.94})(VO_4)_6F_2$	P63/M	42	2.653	111.419	0.492	2004	98856
Fluorovanadinite	$Ca_{10}(VO_4)_6(F_{0.9}O_{0.05})_2$	P1121/M	42	4.011	168.477	0.744	2004	98860

Fluorphosphohedyphane	$Ca_2(Pb_{2.65}Ca_{0.35})(PO_4)_3F$	P63/M	42	2.653	111.419	0.492	2011	180322
Fluorpyromorphite	$Pb_5(PO_4)_3F$	P63/M	42	2.653	111.419	0.492	1982	20500
Fluorrichterite	$K(NaCa)Mg_5((Si_{7.76}Ti_{0.24})O_{22})((OH)_{0.4}F_{1.6})$	C12/M1	40	3.672	146.877	0.690	1993	74638
Fluorriebeckite	$(Na_{0.04}K_{0.29})(Ca_{0.01}Na_{1.99})(Li_{0.33}Mn_{0.18}Fe_{4.37}Al_{0.10})(Al_{0.25}Si_{7.75})O_{22}(OH)F$	C12/M1	41	3.699	151.660	0.690	1978	200423
Fluorthalenite-(Y)	$Y_3F(Si_3O_{10})$	P121/N1	68	4.087	277.947	0.671	1998	50443
Fluortremolite	$Ca_{1.92}Mg_{5.08}(Si_8O_{22})F_2$	C12/M1	39	3.593	140.131	0.680	1995	81596
Fluorvesuvianite	$Ca_{18}(CaFe)Al_4(Al_{0.78}Mg_{0.17}Fe_{0.046})_8(Si_{17.606}O_{68})(O(OH))((OH)_{0.28}F_{0.72})_8$	P4/NNCZ	258	4.221	1088.897	0.527	2003	98877
Foggite	$Ca(H_2O)_3(CaAl_2(OH)_4(PO_4)_2)$	A2122	42	3.630	152.477	0.673	1975	4261
Foitite	$(Fe_{1.58}Al_{1.42})Al_6(Si_6O_{18})(BO_3)_3((OH)_{3.53}O_{0.47})$	R3MH	52	3.569	185.590	0.626	2000	90046
Fontanite	$Ca((UO_2)_3(CO_3)_2O_2)(H_2O)_6$	P121/N1	104	4.700	488.846	0.702	2003	97281
Foordite	$Sn(Nb_2O_6)$	C12/C1	18	2.281	41.059	0.547	2009	163815
Footemineite	$Ca_2Mn_{0.9}(Li_{0.17}Mg_{0.05})(Mn_{3.44}Fe_{0.56})Be_4(PO_4)_6(OH)_4(H_2O)_6$	P-1	48	4.627	222.078	0.828	2008	159039
Formanite-(Y)	$Na(BF_4)$	P12/A1	12	1.918	23.020	0.535	1967	36067
Formicaite	$Ca(HCO_2)_2$	PNAM	56	2.807	157.212	0.483	1948	58101
Fornacite	$Pb_2Cu((As_{0.925}P_{0.075})O_4)(CrO_4)(OH)$	P21/C	56	3.807	213.212	0.656	1967	26828
Forsterite	Mg_2SiO_4	PBNM	28	2.522	70.606	0.525	1973	9686
Foshagite	$Ca_4(Si_3O_9)(OH)_2$	P-1	36	4.170	150.117	0.807	2004	151963
Fougerite	$(Fe(OH)_2)((OH)_{0.25}(H_2O)_{0.5})$	R3-MH	15	0.906	13.584	0.232	2007	159700
Fourmarierite	$Pb(UO_2)_4O_3(OH)_4(H_2O)_4$	BB21M	96	4.793	460.156	0.728	1985	61441
Fowlerite	$Mn_3ZnCaSi_5O_{15}$	C1-	50	4.644	232.193	0.823	2005	171936
Francevillite (Pb-poor)	$(Ba_{0.96}Pb_{0.04})(UO_2)_2(VO_4)_2(H_2O)_5$	PCAN	88	3.550	312.430	0.550	1986	29518

Franciscanite	$Mn_3V_{0.5}(SiO_4)O(OH)_2$	P3	24	3.396	81.510	0.741	1986	29556
Francisite	$Cu_3Bi(SeO_3)_2O_2Cl$	PMMNZ	30	2.840	85.207	0.579	1990	69385
Francoanellite	$K_3Al_5(HPO_4)_6(PO_4)_2(H_2O)_{12}$	R3-CH	180	4.110	739.770	0.549	1998	407357
Francoisite-(Nd)	$Nd((UO_2)_3O(OH)(PO_4)_2)(H_2O)_6$	P21/C	112	4.807	538.424	0.706	1988	202796
Frankamenite	$K_{2.87}Na_{3.14}Ca_{4.86}(Si_{12}O_{30})F_2(OH)_2(H_2O)_{0.78}$	P1	58	5.858	339.763	1.000	1996	82885
Frankdicksonite	BaF_2	FM3-M	3	0.918	2.755	0.579	1995	41649
Frankhawthorneite	$Cu_2(OH)_2(TeO_4)$	P121/N1	18	2.281	41.059	0.547	1995	81607
Franklinfurnaceite	$Ca_2Mn_{3.05}Mg_{0.65}Zn_{0.3}Fe_{0.75}Al_{0.25}(Zn_2Si_2O_{10})(OH)_8$	C121	29	4.030	116.881	0.830	1988	202706
Franklinite	$ZnFe_2O_4$	FD3-MS	14	1.379	19.303	0.362	1968	28511
Franklinite. manganoan	$(Zn_{0.75}Mn_{0.75}Fe_{1.5})O_4$	I41/AMDZ	14	1.379	19.303	0.362	1996	82909
Franklinite. manganoan	$Zn_{0.68}Mn_{0.36}Fe_{1.96}O_4$	FD3-MZ	14	1.379	19.303	0.362	1999	280055
Fransoletite	$Ca_3Be_2(PO_4)_2(HPO_4)_2(H_2O)_4$	P121/A1	78	4.311	336.261	0.686	1992	40670
Franzinite	$Na_{21.47}K_{8.62}Ca_{9.91}(Si_{30}Al_{30}O_{120})(SO_4)_{10}(H_2O)_2$	P321	280	5.740	1607.279	0.706	2000	89863
Freboldite	CoSe	P63/MMC	4	1.000	4.000	0.500	1972	42541
Frederikssonite	$(Mg_{1.98}Fe_{0.02})(Mn_{0.78}Fe_{0.2}Al_{0.02})(BO_3)O_2$	PBAM	36	3.281	118.117	0.635	1994	76853
Freedite	$Pb_8Cu(AsO_3)_2O_3Cl_5$	C12/M1	50	3.844	192.193	0.681	1987	68176
Freibergite	$Cu_6(Ag_{4.32}Fe_{1.68})Sb_4S_{13}$	I4-3M	29	2.029	58.842	0.418	1986	62115
Freieslebenite	$PbAgSbS_3$	P121/A1	24	2.585	62.039	0.564	1974	8166
Fresnoite	$Ba_2Ti(SiO_4)_2$	P4BM	26	2.624	68.211	0.558	2006	155316
Freudenbergite	$Na_2(Fe_2Ti_6O_{16})$	C12/M1	13	2.777	36.106	0.751	1978	1392
Friedrichbeckeite	$K_{0.93}Na_{0.77}(Mg_{0.81}Mn_{0.095}Fe_{0.095})_2(Be_{0.61}Mg_{0.39})_3(Si_{12}O_{30})$	P6/MCC	100	2.577	257.739	0.388	2009	166767
Frohbergite	$FeTe_2$	PNNM	6	0.918	5.510	0.355	1986	86518

Frolovite	$Ca(B(OH)_4)_2$	P-1	22	3.459	76.107	0.776	1972	20060
Froodite	Bi_2Pd	C12/M1	6	1.585	9.510	0.613	1957	42565
Fuchsite 2M1	$(K_{0.75}Ca_{0.13})(Mg_{0.6}Al_{1.3}Cr_{0.2}Fe_{0.1})(Al_{0.9}Si_{3.1}O_{10})(OH)_2$	C12/C1	38	3.301	125.421	0.629	1982	41239
Fueloeppite	$Pb_3Sb_8S_{15}$	C12/C1	52	3.777	196.423	0.663	1975	41849
Fuenzalidaite	$K_6(K_{1.2}Na_{2.8})Na_6Mg_{10}(SO_4)_{12}(IO_3)_{12}(H_2O)_{12}$	P3-C1	146	3.890	568.009	0.541	1994	77416
Fukalite	$Ca_4(Si_2O_6)(CO_3)(OH)_2$	P212121	84	4.392	368.955	0.687	2005	155048
Fukalite	$Ca_4(Si_2O_6(OH)_2)(CO_3)$	P21/C	152	5.248	797.685	0.724	2009	162467
Fukuchilite	$(Cu_{0.75}Fe_{0.25})S_2$	PA3-	12	0.918	11.020	0.256	1993	74217
Gabrielite	$Tl_6(Ag_{2.63}Cu_{6.37})(As_{8.55}Sb_{0.45})S_{21}$	P-1	90	5.492	494.267	0.846	2006	156632
Gadolinite	$Fe_{0.66}(Y_{1.48}Dy_{0.38}Ca_{0.14})((Be_{1.64}B_{0.36})Si_2O_{9.5}(OH)_{0.5})$	P21/C	34	3.146	106.974	0.618	1993	40001
Gagarinite-(La)	$Na_{0.8}(Ca_{0.8}La_{1.2})F_6$	P3-	9	1.224	11.020	0.386	1962	20712
Gagarinite-(Y)	$Na_{0.9}(Ca_{0.9}Y_{1.1})F_6$	P63/M	10	1.371	13.710	0.413	1994	79157
Gageite (substructure)	$(Mg_{3.44}Mn_{10.56})O_2(Si_4O_{12})_{1.33}(OH)_{13.33}$	PNNM	52	3.777	196.423	0.663	1987	40749
Gahnite	$ZnAl_2O_4$	FD3-MZ	14	1.379	19.303	0.362	1972	9559
Gaidonnayite	$Na_2Zr(Si_3O_9)(H_2O)_2$	P21NB	68	4.087	277.947	0.671	1985	201846
Gainesite	$Na_{1.08}K_{.83}Zr_2Be(PO_4)_4$	I41/AMDZ	32	2.625	84.000	0.525	1983	31199
Gaitite	$Ca_2(Zn_{0.58}Mg_{0.42})(AsO_4)_2(H_2O)_2$	P-1	19	3.301	62.711	0.777	2004	54881
Galaxite	$(Mn_{0.9}Al_{0.1})((Mn_{0.1}Al_{1.9})O_4)$	FD3-MZ	14	1.379	19.303	0.362	2007	157282
Galeite	$Na_{15}(SO_4)_5F_4Cl$	P31M	135	5.149	695.175	0.728	1975	4290
Galena	PbS	FM3-M	2	1.000	2.000	1.000	1985	600243
Galenobismutite	$PbBi_2S_4$	PNMA	28	2.807	78.606	0.584	2010	167007
Galkhaite	$Hg(AsS_2)$	I4-3M	23	1.631	37.513	0.361	1975	42012
Galliskiite	$Ca_4Al_2(PO_4)_2F_8(H_2O)_5$	P-1	72	5.170	372.235	0.838	2010	166958

Gallite	$CuGaS_2$	I4-2D	8	1.500	12.000	0.500	1985	627486
Gallobeudantite	$PbGa_3(AsO_4)(SO_4)(OH)_6$	R3MH	20	3.133	62.664	0.725	1996	76834
Gallobicchulite	$Ca_2(Ga_2SiO_6)(OH)_2$	I4-3M	38	2.155	81.872	0.411	1998	52153
Gallobicchulite	$Ca_8(Ga_2SiO_6)_4(OH)_8$	I4-	30	3.040	91.207	0.620	1998	280478
Galtierite	$CoS_{1.97}$	PA3-	12	0.918	11.020	0.256	1991	86353
Gamagarite	$(Ba_{1.8}Sr_{.2})(Fe_{.56}Mn_{.44})(V_{1.83}As_{.17}O_8)(OH)$	P121/M1	30	3.640	109.207	0.742	1987	68348
Gananite	BiF_3	P4-3M	16	2.406	38.490	0.601	1949	25567
Ganomalite	$Pb_9Ca_{5.44}Mn_{0.56}(SiO_4)_3(Si_2O_7)_3$	P6-	57	3.713	211.642	0.637	1997	50268
Ganophyllite	$K_{3.68}Mn_{15.904}Si_{25.472}O_{64}(OH)_{9.376}(H_2O)_{7.024}$	I12/A1	72	4.281	308.235	0.694	1999	87646
Garavellite	$FeSbBiS_4$	PNAM	28	2.807	78.606	0.584	2005	155236
Garrelsite	$NaBa_3(Si_2B_7O_{16}(OH)_4)$	C12/C1	66	4.135	272.930	0.684	1976	32
Garronite	$Na_{0.8}Ca_{2.82}(Al_6Si_{10}O_{32})(H_2O)_{12.08}$	I4-M2	38	2.880	109.421	0.549	1992	66327
Gartrellite	$PbFeCu(AsO_4)_2(OH)(H_2O)$	P-1	15	3.107	46.603	0.795	1998	76618
Gasparite-(Ce). phosphatian	$(Ce_{0.79}La_{0.10}Nd_{0.10})((As_{0.71}P_{0.29})O_4)$	P121/N1	24	2.585	62.039	0.564	2004	54879
Gaspeite	$Ni(CO_3)$	R3-CH	10	1.371	13.710	0.413	1986	61067
Gatehouseite	$Mn_5(OH)_4(PO_4)_2$	P212121	76	4.248	322.842	0.680	1977	1198
Gatelite-(Ce)	$(Ca(La_{0.61}Ce_{1.54}Nd_{0.85}))(Al_2(Al_{0.8}Mg_{0.2})(Al_{0.33}Mg_{0.33}Fe_{0.33}))(SiO_4)_3(Si_2O_7)(O_{0.86}F_{0.14})(O_{0.4}(OH)_{1.6})$	P121/A1	148	5.209	770.999	0.723	2003	96810
Gaudefroyite	$Ca_4Mn_3B_3O_{12}CO_3$	P63	52	3.237	168.345	0.568	1975	24973
Gaudefroyite	$Ca_4Mn_3((BO_3)_3(CO_3)O_3)$	P63/M	58	2.969	172.175	0.507	1997	66846
Gaultite	$Na_4(Zn_2Si_7O_{18})(H_2O)_5$	F2DD	88	4.505	396.430	0.697	1994	79160
Gayite	$Na(Fe_{0.73}Al_{0.27})(Mn_{0.93}Fe_{0.07})(Fe_{1.54}Al_{0.48})(Fe_{1.74}Al_{0.26})(PO_4)_4(OH)_6(H_2O)_2$	C12/C1	58	3.961	229.763	0.676	2010	166959

Gaylussite	$CaNa_2(CO_3)_2(H_2O)_5$	C12/C1	52	3.777	196.423	0.663	1969	4424
Gearksutite	$CaAlF_4(OH)(H_2O)$	P-1	16	3.000	48.000	0.750	2000	89800
Gebhardite	$Pb_8OCl_6(As_2O_5)_2$	P21/C	116	4.858	563.526	0.708	1982	40343
Gedrite	$Ca(Fe_6(OH)_6(H_2O)_2(PO_4)_4)_2$	PNMA	70	4.215	295.050	0.688	1970	34830
Gehlenite	$Ca_2Al(AlSiO_7)$	P4-21M	24	2.418	58.039	0.527	1995	39884
Geigerite	$(Mn_5(H_2O)_8)(AsO_3(OH))_2(AsO_4)_2(H_2O)_2$	P-1	57	4.850	276.475	0.832	1989	68637
Geikielite	$Mg(TiO_3)$	R3-H	10	1.371	13.710	0.413	2004	55285
Gelosaite	$BiMo_{2.10}O_7(OH)(H_2O)$	P121/N1	60	3.907	234.413	0.661	2011	180340
Geminite	$Cu(AsO_3OH)(H_2O)$	P-1	56	4.807	269.212	0.828	1996	83319
Genthelvite	$(Zn_{7.8}Mn_{0.2})Be_6(SiO_4)_6S_2$	P4-3N	46	1.892	87.025	0.343	2010	169934
Geocronite	$Pb_{28}Sb_7As_5S_{46}$	P121/M1	86	4.589	394.659	0.714	1976	41808
Georgbokiite	$Cu_5O_2(SeO_3)_2Cl_2$	P21/C	34	3.146	106.974	0.618	1999	89637
Georgechaoite	$NaKZr(Si_3O_9)(H_2O)_2$	P21NB	84	4.392	368.955	0.687	1985	201843
Georgeericksenite	$Na_6CaMg(IO_3)_6((Cr_{0.84}S_{0.16})O_4)_2(H_2O)_{12}$	C12/C1	108	4.792	517.528	0.709	1998	85541
Georgiadesite	$Pb_4(AsO_3)Cl_4(OH)$	P21/C	56	3.807	213.212	0.656	2000	91738
Gerenite-(Y)	$(Ca_{1.21}Na_{0.57})(Y_{2.24}Dy_{0.68})(Si_6O_{18})(H_2O)_2$	P-1	31	3.986	123.580	0.805	1998	85571
Gerhardtite	$Cu_2(OH)_3(NO_3)$	P212121	48	3.585	172.078	0.642	1982	201478
Germanite	$Cu_{13}Fe_2Ge_2S_{16}$	P4-3N	66	2.498	164.852	0.413	1984	64787
Gersdorffite	NiSAs	P213	12	1.585	19.020	0.442	1974	42071
Gerstleyite	$Na_2((Sb_{7.2}As_{0.8})S_{13})(H_2O)_2$	C1M1	25	3.764	94.096	0.811	1981	158007
Gerstmannite	$(Mn_{.786}Mg_{.214})Mg(OH)_2(ZnSiO_4)$	BBCM	40	3.122	124.877	0.587	1977	100142
Getchellite	$(As_{0.98}Sb_{1.02})S_3$	P121/A1	40	3.322	132.877	0.624	2004	55280
Geversite	$PtSb_2$	PA3-	12	0.918	11.020	0.256	1994	57470

Giannettite	$Na_2Ca_4(Ca_{0.7}Mn_{0.1}Fe_{0.1}Ce_{0.1})(TiO(OH)(Si_2O_7)_2)F_2$	P1	30	4.907	147.207	1.000	1995	39883
Gibbsite	$Al(OH)_3$	P121/N1	56	3.807	213.212	0.656	1974	6162
Gillardite	$Cu_3Ni(OH)_6Cl_2$	R3-MH	18	2.071	37.284	0.497	2007	415857
Gillespite I	$BaFeSi_4O_{10}$	P4/NCCZ	64	2.375	152.000	0.396	1983	31203
Gillulyite	$Tl_2As_{7.78}Sb_{0.22}S_{13}$	P12/N1	50	3.684	184.193	0.653	1995	80119
Gilmarite	$Cu_3(AsO_4)(OH)_3$	P1	11	3.459	38.054	1.000	1999	87869
Girvasite	$NaCa_2Mg_3(OH)_2H_2(PO_4)_3(CO_3)(H_2O)_4$	P21/C	124	4.954	614.320	0.712	1990	39339
Gismondine	$CaAl_2Si_2O_8(H_2O)_4$	P21/C	72	4.170	300.235	0.676	1963	15838
Gismondine	$K_{5.76}Ga_{5.76}Si_{10.24}O_{32}(H_2O)_{9.936}$	I41/AZ	32	2.000	64.000	0.400	2008	173423
Gismondine	$Na_8(Be_{12.07}Si_{12}O_{32})(H_2O)_8$	I4-	32	3.000	96.000	0.600	2010	261099
Gittinsite	$CaZr(Si_2O_7)$	C121	11	2.732	30.054	0.790	1989	203131
Giuseppettite	$Na_{42.52}K_{16.15}Ca_{5.33}(Si_{48}Al_{48}O_{192})(SO_4)_{10}Cl_2(H_2O)_{4.9}$	P31C	430	6.333	2723.097	0.724	2004	99724
Gjerdingenite-(Ca)	$(K_{0.46}Na_{0.21})_2(Sr_{0.19}Ca_{0.12}Ba_{0.03})_2(Ca_{0.48}Mn_{0.15})(Nb_{0.68}Ti_{0.32})_2(Nb_{0.57}Ti_{0.43})_2(Si_4O_{12})_2(O_{2.6}(OH)_{1.4})(H_2O)_{5.67}$	C12/M1	49	3.982	195.121	0.709	2007	158773
Gjerdingenite-(Fe)	$(K_{1.2}Na_{0.72}(H_2O)_{2.08})(K_{2.08}(H_2O)_{1.92})((H_2O)_{3.4}K_{0.56}Ca_{0.04})(Fe_{0.95}Mn_{0.75})(Nb_{4.30}Ti_{3.45}Fe_{0.20}Zr_{0.05})(Si_{15.9}Al_{0.1})O_{48}((OH)_{4.16}O_{3.84})(H_2O)_4$	C12/M1	48	3.918	188.078	0.702	2002	96617
Gjerdingenite-(Mn)	$K_{1.44}Mn_{1.013}(Nb_{2.508}Ti_{1.492})(Si_4O_{12})_2(O_2(OH)_2)(H_2O)_{6.56}$	C12/M1	51	4.065	207.294	0.717	2004	171100
Gjerdingenite-(Na)	$(K_{0.50}Na_{0.38}Ca_{0.12})_2(Na_{0.84}Ca_{0.16})(Nb_{0.66}Ti_{0.34})_2(Nb_{0.52}Ti_{0.48})_2(Si_4O_{12})_2(O_{1.76}(OH)_{2.24})(H_2O)_{5.32}$	C12/M1	49	3.982	195.121	0.709	2007	158774
Gladite	$PbCuBi_5S_9$	PBNM	64	4.000	256.000	0.667	1976	167
Gladiusite	$(Fe_{4.24}Mg_{1.69}Mn_{0.05})(PO_4)(OH)_{11}(H_2O)$	P121/N1	92	4.524	416.168	0.693	2001	92803
Glagolevite	$Na_{0.58}Mg_6(Si_4Al_2O_{10})O_8H_{1.42}$	C1	29	4.858	140.881	1.000	2004	171507

Glauberite	$CaNa_2(SO_4)_2$	C12/C1	26	2.777	72.211	0.591	1967	16901
Glaucochroite	$(Ca_{0.98}Mn_{0.02})(Mn_{0.85}Mg_{0.10}Zn_{0.05})(SiO_4)$	PBNM	28	2.522	70.606	0.525	1978	100650
Glaucodot	$(Co_{0.52}Fe_{0.47}Ni_{0.01})AsS$	PN21M	18	3.170	57.059	0.760	2008	160819
Glauconite	$(K_{0.8}Ca_{0.01}Na_{0.03})(Al_{0.43}Mg_{0.39}Fe_{1.22})((Si_{3.73}Al_{0.27})O_{10}(OH)_2)$	C12/M1	19	2.669	50.711	0.628	2010	166973
Glaucophane	$(Na_{1.98}Li_{0.02})(Mg_{1.98}Fe_{1.42}Al_{1.6})(Si_8O_{22}(OH)_2)$	C12/M1	39	3.593	140.131	0.680	1991	158241
Glaukosphaerite	$(Cu_{1.5}Ni_{0.5})(CO_3)(OH)_2$	P121/A1	32	3.000	96.000	0.600	2006	156819
Gmelinite	$Ca_{1.67}Mg_{0.12}Sr_{0.39}Na_{0.22}K_{1.94}(Al_8Si_{16}O_{48})(H_2O)_{18.94}$	P63/MMC	114	3.349	381.774	0.490	1990	69223
Gobbinsite	$(Na_{4.74}Ca_{1.23})((Al_{5.65}Si_{10.35})O_{32})(H_2O)_{10.9}$	PMNB	68	3.382	229.947	0.555	2010	168132
Godlevskite	$(Ni_7S_6)_{3.24}$	BMMB	24	2.752	66.039	0.600	1972	2768
Godlevskite	$FeNi_{35}S_{32}$	C222	34	3.440	116.974	0.676	1987	63080
Godlevskite 4Q	Ni_9S_8	I4-2D	68	3.264	221.947	0.536	2009	164879
Goergeyite	$(K_2(SO_4))(Ca(SO_4))_5H_2O$	C12/C1	76	4.301	326.842	0.688	1980	30790
Goethite	$FeO(OH)$	PNMA	12	1.585	19.020	0.442	2008	159966
Goetzenite	$(Ca_{1.62}Ce_{0.13}Mn_{0.11}Zr_{0.09}Y_{0.05})(Ca_{1.22}Na_{0.78})(Ca_{1.88}Ce_{0.12})(Na_{0.81}Ca_{0.19})(Ti_{0.92}Fe_{0.05}Nb_{0.03})(Si_2O_7)_2(O_{0.82}F_{1.18})F_2$	P-1	30	3.974	119.207	0.810	2003	55306
Gold	Au	FM3-M	1	0.000	0.000	Nan	1953	64701
Goldfieldite	$Cu_{11}(Te_{2.5}Sb_{1.0}As_{0.5})S_{13.9}$	I4-3M	29	2.029	58.842	0.418	1996	83000
Goldichite	$KFe(SO_4)_2(H_2O)_4$	P21/C	64	4.000	256.000	0.667	1971	22053
Goldmanite	$(Ca_{2.90}Mg_{.08}Mn_{.02})(V_{1.20}Al_{.47}Fe_{.33})Si_3O_{12}$	IA3-D	80	1.595	127.637	0.252	1971	27369
Goldquarryite	$Cu_{0.70}(Cd_{1.67}Ca_{0.33})Al_3(PO_4)_4F_2(H_2O)_{10}((H_2O)_{0.8}F_{0.2})_2$	P-1	40	4.422	176.877	0.831	2004	54833
Golyshevite	$Na_{9.21}Ca_{9.35}K_{0.3}Ce_{0.1}Zr_3Nb_{0.57}Fe_{2.19}Mn_{0.3}Al_{0.08}Si_{0.66}(Si_3O_9)_2(Si_9O_{27})_2(OH)_{2.61}(CO_3)Cl_{0.29}(H_2O)_{0.71}$	R3MH	141	5.239	738.707	0.734	2005	250296

Gonnardite	$Na_2Ca(Al_2Si_3O_{10})_2(H_2O)_6$	PBNM	92	3.741	344.168	0.573	1972	20057
Gonnardite	$Na_{6.528}Ca_{1.472}(Al_{9.404}Si_{10.596}O_{40})(H_2O)_{11.936}$	I4-2D	46	3.045	140.084	0.551	1986	29522
Goosecreekite	$Ca(Al_2Si_6O_{16})(H_2O)_5$	P1211	60	4.907	294.413	0.831	1986	202114
Gorceixite	$(Ba_{0.76}Ca_{0.19}Sr_{0.1})(Al_{0.91}Fe_{0.09})_3(PO_4)(HPO_4)(OH)_6$	R3MH	17	2.969	50.467	0.726	2007	161822
Gorceixite	$(Ba_{0.76}Ca_{0.19}Sr_{0.1})(Al_{0.91}Fe_{0.09})_3(PO_4)(HPO_4)(OH)_6$	C1M1	17	3.617	61.487	0.885	2007	161823
Gordaite	$NaZn_4(SO_4)(OH)_6Cl(H_2O)_6$	P3-	82	3.966	325.202	0.624	1997	406090
Gordonite	$MgAl_2((PO_4)_2(OH)_2(H_2O)_6)(H_2O)_2$	P-1	41	4.431	181.660	0.827	1988	63247
Gottardiite	$(Na_{2.5}K_{0.2}Mg_{3.1}Ca_{4.9})(Al_{20.4}Si_{115.6}O_{272})(H_2O)_{93}$	CMCA	272	5.411	1471.790	0.669	1996	81390
Gottlobite	$CaMg(V_{0.75}As_{0.25}O_4)(OH)$	P212121	32	3.000	96.000	0.600	2000	91858
Gowerite	$Ca(B_5O_8(OH))(B(OH)_3)(H_2O)_3$	P121/A1	88	4.459	392.430	0.690	1972	22047
Goyazite	$SrAl_3(OH)_6(HPO_4)(PO_4)$	R3-MH	28	2.761	77.322	0.574	1987	68170
Graeserite	$Pb_{0.14}Fe_4Ti_3As_{0.986}O_{13}(OH)$	C12/M1	23	3.045	70.042	0.673	1998	50374
Graftonite	$Fe_3(PO_4)_2$	P21/C	52	3.700	192.423	0.649	2003	281704
Gramaccioliite-(Y)	$(La_{0.600}Pb_{0.300})(Y_{0.530}Sc_{0.200}Ce_{0.100}Zr_{0.070}Dy_{0.050}Mn_{0.050})(Fe_{1.8}Zn_{0.2})(Fe_{0.82}Ti_{0.12}Al_{0.06})_6Ti_{12}O_{38}$	R3-R	60	3.514	210.825	0.595	2010	168539
Grandidierite	$(Mg_{0.55}Fe_{0.45})(Al_3BSiO_9)$	PBNM	60	3.640	218.413	0.616	2007	156734
Grandreefite	$Mg_3B_2(OH)_6(PO_4)_2(H_2O)_6$	A12/A1	45	4.514	203.133	0.822	1991	69609
Graphite	C	CMMA	8	1.000	8.000	0.333	1999	88811
Graphite	C	CMMM	8	1.000	8.000	0.333	1999	88812
Graphite	C	PCCA	16	1.000	16.000	0.250	1999	88813
Graphite	C	PBANS	16	1.000	16.000	0.250	1999	88814
Graphite 2H	C	P63MC	4	1.000	4.000	0.500	1924	31170
Graphite 2H	C	P63/MMC	4	1.000	4.000	0.500	1936	52230

Graphite 3R	C	R3-MR	2	0.000	0.000	0.000	1942	31829
Gratonite	$Pb_9As_4S_{15}$	R3MH	28	2.850	79.812	0.593	1969	18097
Grattarolaite	$Fe_3(PO_4)O_3$	R3MH	11	2.163	23.789	0.625	1983	36207
Graulichite-(Ce)	$Ce(Fe_{0.83}Al_{0.17})_3(As_{1.848}O_8)((OH)_{5.57}(H_2O)_{0.43})$	R3-MH	20	2.333	46.664	0.540	2003	98207
Gravegliaite	$Mn(SO_3)(H_2O)_3$	PNMA	32	2.500	80.000	0.500	1991	33945
Grechishchevite	$Hg_3S_2BrCl_{0.5}I_{0.5}$	PBNM	56	3.236	181.212	0.557	2004	250175
Greenalite	$Fe_6(Si_4O_{10})(OH)_8$	C12/M1	28	3.307	92.606	0.688	1965	15492
Greenockite	CdS	P63MC	4	1.000	4.000	0.500	1983	620323
Greifensteinite	$(Mn_{1.14}Fe_{2.35}Zn_{0.72}Al_{0.28}Mg_{0.19})Ca_2Be_4(PO_4)_6(OH)_4(H_2O)_6$	C12/C1	56	3.950	221.212	0.680	2004	250216
Greigite	Fe_3S_4	FD3-MZ	14	1.379	19.303	0.362	1968	42536
Grenmarite	$Zr_{2.3}Mn_{1.3}Ti_{.46}Na_{3.56}Ca_{.38}(Si_2O_7)_2O_2F_2$	P12/C1	60	4.040	242.413	0.684	2004	171099
Griceite	LiF	FM3-M	2	1.000	2.000	1.000	1988	62361
Grimaldiite	CrO(OH)	R3-MH	5	1.522	7.610	0.655	1963	43349
Grimselite	$K_3Na((UO_2)(CO_3)_3)(H_2O)$	P6-2C	42	3.070	128.928	0.569	2001	92805
Griphite	$(Mn_{3.54}Na_{1.02}Li_{0.54}Ca_{0.42}Fe_{0.30}Mg_{0.06})Ca(Fe_{0.7}Al_{0.13})(Al_{0.96}Fe_{0.04})_2((PO_4)_{0.97}(OH)_{0.12})_6(F_{0.8}(OH)_{0.2})_2$	PA3-	168	3.081	517.675	0.417	1978	157985
Grischunite	$NaCa_2Mn_5Fe(AsO_4)_6(H_2O)_2$	PCAB	180	4.514	812.534	0.603	1987	63431
Groatite	$NaCaMn_2(PO_4)(PO_3(OH))_2$	C12/C1	38	3.406	129.421	0.649	2009	166097
Grossite	$Ca(Al_4O_7)$	C12/C1	24	2.752	66.039	0.600	1970	16191
Grossular	$Ca_3Al_2Si_3O_{12}$	IA3-D	80	1.595	127.637	0.252	1975	24944
Grossular	$(Ca_{2.869}Fe_{.131})(Al_{1.89}Fe_{.11})(SiO_4)_3$	I1-	80	5.422	433.754	0.858	1988	66254
Grossular. ferrian	$Ca_3(Al_{1.6}Fe_{0.4})(SiO_4)_3$	FDDDZ	80	3.572	285.754	0.565	1982	64749
Groutellite	$MnO_{1.5}(OH)_{0.5}$	PNMA	12	1.585	19.020	0.442	2004	171867

Groutite	$MnO(OH)$	PNMA	16	2.000	32.000	0.500	1997	84948
Grumantite	$Na(Si_2O_4(OH))(H_2O)$	FDD2	48	3.585	172.078	0.642	1989	39749
Grumiplucite	$HgBi_2S_4$	C12/M1	14	2.950	41.303	0.775	1980	14189
Grunerite	$Fe_{6.2}Mg_{.8}Si_8O_{22}(OH)_{1.5}F_{.5}$	C12/M1	39	3.593	140.131	0.680	1969	24590
Guanacoite	$(Cu_{1.87}Mg_{3.13})(AsO_4)_2(OH)_4(H_2O)_4$	P21/C	70	4.158	291.050	0.678	2008	159956
Guanajuatite	Bi_2Se_3	PNMA	20	2.322	46.439	0.537	2005	171571
Gudmundite	FeSbS	P21/C	12	1.585	19.020	0.442	1939	24161
Guerinite	$Ca_5(HAsO_4)_2(AsO_4)_2(H_2O)_9$	P121/N1	168	5.392	905.909	0.729	1974	2127
Gugiaite	$Ca_2Be(Si_2O_7)$	P4-21M	24	2.418	58.039	0.527	2001	94063
Guildite	$CuFe(SO_4)_2(OH)(H_2O)_4$	P121/M1	42	4.011	168.477	0.744	1978	100630
Guilleminite	$Ba(UO_2)_3(SeO_3)_2O_2(H_2O)_3$	P21NM	46	3.828	176.084	0.693	1995	81586
Gunningite	$Zn(SO_4)(H_2O)$	C12/C1	18	2.503	45.059	0.600	1991	71348
Gupeiite	Fe_3Si	FM3-M	4	1.500	6.000	0.750	1974	633552
Gustavite	$PbAgBi_3S_6$	CMCM	22	2.732	60.107	0.613	1993	300265
Gustavite - Sb-rich	$AgPb(Bi_{1.998}Sb_{0.911})S_6$	P21/C	44	3.459	152.215	0.634	2009	260613
Guyanaite	$CrO(OH)$	P21NM	8	2.000	16.000	0.667	1976	2257
Gwihabaite	$K_{0.2202}(NH_4)_{0.7798}(NO_3)$	PNMA	36	2.725	98.117	0.527	1995	79823
Gypsum	$Ca(SO_4)(H_2O)_2$	I12/C1	16	2.250	36.000	0.563	1974	2057
Gyrolite	$NaCa_{16}(AlSi_{23}O_{60})(OH)_8(H_2O)_{14}$	P-1	123	5.951	731.929	0.857	1988	68199
Gysinite-(Nd)	$La_{0.16}Nd_{1.18}Pb_{0.66}(CO_3)_2(OH)_{1.34}(H_2O)_{0.66}$	PMCN	24	2.252	54.039	0.491	1985	30968
Hackmanite	$Na_8(Al_6Si_6O_{24})Cl_2$	P4-3N	46	1.892	87.025	0.343	1983	40129
Haeggite	$V_4O_6(OH)_4$	C12/M1	9	2.281	20.529	0.720	2009	260368
Hafnon	$HfSiO_4$	I41/AMDZ	12	1.252	15.020	0.349	1986	59111

Hagendorfite	$(Na_{1.64}Ca_{0.17}Mn_{0.19})MnFe_2(PO_4)_3$	C12/C1	40	3.522	140.877	0.662	2005	154421
Haggertyite	$(Ba_{0.69}K_{0.31})Ti_{5.42}Fe_{5.86}Mg_{.72}O_{19}$	P63/MMC	66	3.187	210.362	0.527	1998	77475
Haidingerite	$CaHAsO_4(H_2O)$	PCNB	56	2.807	157.212	0.483	1972	64765
Haineaultite	$Na_{5.04}Ca(Ti_{4.2}Nb_{0.8})Si_{12}O_{34}(OH)_8(H_2O)_{4.96}$	C222	42	3.869	162.477	0.717	2004	54834
Haiweeite	$Ca((UO_2)_2(Si_5O_{12})(OH)_2)(H_2O)_3$	CMCM	74	4.182	309.500	0.674	2001	92806
Halite	NaCl	FM3-M	2	1.000	2.000	1.000	1965	18189
Hallimondite	$Pb_2((UO_2)(AsO_4)_2)(H_2O)_{0.29}$	P-1	31	3.986	123.580	0.805	2005	171055
Halloysite	$Al_2Si_2O_3(OH)_8$	C1M1	15	3.107	46.603	0.795	1935	26716
Halotrichite	$FeAl_2(SO_4)_4(H_2O)_{22}$	P21/C	180	5.492	988.534	0.733	1986	96598
Hambergite	$Be_2(BO_3)((OH)_{0.52}F_{0.48})$	PBCA	64	3.000	192.000	0.500	1995	81594
Hammarite	$Cu_2Pb_2Bi_4S_9$	PBNM	68	4.087	277.947	0.671	1976	60156
Hanawaltite	$Hg_6HgO_3Cl_2$	PBMA	48	3.085	148.078	0.552	1999	87756
Hanksite	$Na_{22}K(CO_3)_2(SO_4)_9Cl$	P63/M	154	4.067	626.360	0.560	1973	22021
Hannayite	$Mg_3(NH_4)_2(HPO_4)_4(H_2O)_8$	P-1	61	4.947	301.775	0.834	1976	623
Hannebachite	$CaSO_3(H_2O)_{0.5}$	PBCN	44	2.550	112.215	0.467	1984	201888
Haradaite	$Sr_2(V_2Si_4O_{14})$	CMCM	22	2.550	56.107	0.572	1996	83361
Hardystonite	$Ca_2Zn(Si_2O_7)$	P4-21M	24	2.418	58.039	0.527	1969	18114
Harkerite	$Ca_{24}Mg_8(AlSi_4O_{14.5}(OH)_{1.5})_2(BO_3)_8(CO_3)_8(H_2O)Cl$	R3-MR	147	4.579	673.137	0.636	1977	100037
Harmotome	$Ca_{0.6}Ba_2(Al_4Si_{12}O_{32})(OH)(H_2O)_{11}$	P121/M1	66	4.257	280.930	0.704	1974	2318
Harrisonite	$Ca(Fe_{5.3}Mg_{0.7})(SiO_4)_2(PO_4)_2$	R3-MH	27	2.735	73.853	0.575	1993	75926
Harstigite	$MnCa_6Be_4(SiO_4)_2(Si_2O_7)_2(OH)_2$	PNAM	168	4.678	785.909	0.633	1986	64790
Hartite	$C_{20}H_{34}$	P1	80	6.322	505.754	1.000	1998	56912
Hashemite	$BaCr_{.84}S_{.16}O_4$	PNMA	24	2.252	54.039	0.491	1987	62181

Hastingsite	$Na_{.8}K_{.2}Ca_2Mg_{0.55}Fe_{4.45}Al_{1.68}Si_{6.32}O_{23}(OH)$	C12/M1	40	3.672	146.877	0.690	1989	203154
Hastite	$CoSe_2$	PA3-	12	0.918	11.020	0.256	1980	246908
Hatchite	$PbTlAg(As_2S_5)$	P-1	20	3.322	66.439	0.769	1967	27304
Hatrurite	$Ca_3(SiO_4)O$	R3MH	27	3.698	99.853	0.778	1985	22501
Hatrurite	$Ca_3(SiO_4)O$	C1M1	170	6.962	1183.596	0.940	1985	64759
Hatrurite	$Ca_3(SiO_4)O$	P63/MMC	20	2.171	43.419	0.502	1984	201469
Hauchecornite. antimonian	$Ni_9(Bi_{1.3}Sb_{.7})S_8$	P4/MMM	19	2.143	40.711	0.504	1974	40055
Hauerite	MnS_2	PA3-	12	0.918	11.020	0.256	1986	643447
Haueyne	$Na_{4.35}Ca_{2.28}K_{0.95}(Al_6Si_6O_{24})(SO_4)_2$	P4-3N	62	2.486	154.102	0.417	2004	151519
Haueyne	$(Na_{4.5}K_{1.1}Ca_{2.4})(Si_6Al_6O_{24})(SO_4)_2$	PBA2	112	4.843	542.424	0.711	2003	250084
Hausmannite	Mn_3O_4	PBCM	28	2.236	62.606	0.465	2003	97867
Hausmannite	Mn_3O_4	I41/AMDS	14	1.379	19.303	0.362	1961	109250
Hawleyite	CdS	FM3-M	2	1.000	2.000	1.000	1980	620316
Hawthorneite	$(Ba_{0.85}K_{0.12})Ti_3Cr_{4.72}Fe_{3.54}Mg_{0.72}O_{19}$	P63/MMC	64	3.147	201.432	0.525	1987	202256
Haycockite	$Cu_4Fe_5S_8$	P222	204	5.908	1205.175	0.770	1975	1949
Hazenite	$KNaMg_2(PO_4)_2(H_2O)_{14}$	PMNB	192	4.877	936.313	0.643	2011	180753
Heazlewoodite	Ni_3S_2	R32H	5	0.971	4.855	0.418	1980	654935
Hechtsbergite	$Bi_2O(OH)(VO_4)$	P21/C	36	3.170	114.117	0.613	1997	85180
Hectorite	$((CH_3)_4N)_{0.7}Mg_{2.38}Li_{0.62}Si_4O_{10}F_2$	C12/M1	85	4.574	388.798	0.714	2005	414249
Hedenbergite	$CaFeSi_2O_6$	C12/C1	20	2.522	50.439	0.584	1973	10228
Hedyphane	$Ca_2Pb_3(AsO_4)_3Cl$	P63/M	42	2.653	111.419	0.492	1984	40092
Heftetjernite	$(Sc_{0.50}Sn_{0.20}Mn_{0.18}Fe_{0.07}Ti_{0.05})(Ta_{0.58}Nb_{0.42})O_4$	P12/C1	12	1.918	23.020	0.535	2010	167620

Heideite	$FeTi_2S_4$	C12/M1	7	1.950	13.651	0.695	1973	42563
Heidornite	$Na_2Ca_3(B_5O_8)(SO_4)_2(OH)_2Cl$	C12/C1	66	4.135	272.930	0.684	1967	24458
Hejtmanite I. manganoan	$BaMn_2(TiO)(OH)_2(Si_2O_7)$	C1M1	64	5.219	334.000	0.870	1991	39402
Hejtmanite II	$BaMn_2(TiO)(Si_2O_7)(OH)_2$	P121/M1	32	3.500	112.000	0.700	1991	39401
Hellandite-(Ce)	$(Ti_{0.40}Al_{0.81}Fe_{0.66}Mg_{0.13})(Ca_{8.21}Th_{0.77}U_{0.11}Y_{0.25}La_{0.59}Ce_{1.30}Nd_{0.77})(Be_{0.98}Li_{0.49})(Si_8B_8O_{44})(O_2(OH)_{1.02}F_{0.98})$	P12/A1	82	4.431	363.319	0.697	1999	87714
Hellandite-(Y)	$Ca_{5.24}(Y_{2.62}La_{2.62})(Al_{1.1}Fe_{0.9})(OH)_4(Si_8B_8O_{40}(OH)_4)$	P12/A1	82	4.431	363.319	0.697	1977	100145
Helmutwinklerite	$PbZn_2(AsO_4)_2(H_2O)_2$	P-1	15	3.107	46.603	0.795	1998	76617
Helvine	$Mn_4(BeSiO_4)_3S$	P4-3N	46	1.892	87.025	0.343	1972	2709
Hematite	Fe_2O_3	R3-CH	10	0.971	9.710	0.292	1966	15840
Hematolite	$Mn_{10.39}Mg_{2.53}Al_{1.89}Fe_{0.19}(OH)_{23}(AsO_3)(AsO_4)_2$	R3H	52	4.420	229.854	0.775	1978	200324
Hematophanite	$Pb_4Fe_3O_8Cl$	P4/MMM	16	2.875	46.000	0.719	1981	15521
Hemihedrite	$Zn(Pb_5(CrO_4)_3(SiO_4))_2F_2$	P-1	53	4.747	251.580	0.829	1970	15175
Hemimorphite	$Zn_4(Si_2O_7)(OH)_2(H_2O)$	IMM2	16	2.625	42.000	0.656	1967	26842
Hemloite	$(As_{1.47}Sb_{0.47})(Ti_{5.63}V_{2.11}Fe_{3.94}Al_{0.32})O_{23}(OH)$	P-1	78	5.285	412.261	0.841	1989	203124
Hendricksite 1M	$(K_{.89}Na_{.10}Ba_{.04})(Mg_{1.57}Zn_{.54}Mn_{.40}Fe_{.25}Al_{.07}Ti_{.07}Cr_{.01})(Si_{2.92}Al_{1.08})O_{10}(OH)_2$	C12/M1	20	2.822	56.439	0.653	1985	30927
Heneuite	$CaMg_5(CO_3)(PO_4)_3(OH)$	P-1	52	4.700	244.423	0.825	1986	29554
Henmilite	$Ca_2Cu(OH)_4(B(OH)_4)_2$	P-1	29	3.892	112.881	0.801	1986	202148
Hennomartinite	$SrMn_2(Si_2O_7)(OH)_2(H_2O)$	P21CN	88	4.459	392.430	0.690	1996	83667
Hennomartinite	$SrMn_2(Si_2O_7)(OH)_2(H_2O)$	CMCM	38	3.195	121.421	0.609	1996	83668
Henritermierite	$Ca_3Mn_2(SiO_4)_{1.94}((OH)_4)_{0.95}O_{0.44}$	I41/ACDZ	96	3.002	288.156	0.456	2001	51251
Henrymeyerite	$Ba_{1.08}(FeTi_7O_{16})$	I4/M	13	1.854	24.106	0.501	2000	89858
Hentschelite	$CuFe_2(PO_4)_2(OH)_2$	P121/N1	30	2.974	89.207	0.606	1987	62242

Hephaistosite	$(Tl_{0.96}K_{0.04})Pb_2(Cl_{4.82}Br_{0.18})$	P21/C	32	3.000	96.000	0.600	2009	166293
Hercynite	$FeAl_2O_4$	FD3-MZ	14	1.379	19.303	0.362	1984	40093
Herderite	$CaBe(PO_4)(F_{0.78}(OH)_{0.22})$	P121/A1	32	3.000	96.000	0.600	2008	161639
Herzenbergite	SnS	PNMA	8	1.000	8.000	0.333	1981	24376
Hessite	Ag_2Te	P21/C	12	1.585	19.020	0.442	1993	73402
Hetaerolite	$ZnMn_2O_4$	I41/AMDS	14	1.379	19.303	0.362	1983	39196
Heterogenite	CoO(OH)	R3-MH	4	1.500	6.000	0.750	1969	22285
Heterogenite 2H	CoO(OH)	P63/MMC	8	1.500	12.000	0.500	1973	56288
Heterogenite 3R	CoO(OH)	R3-MR	3	0.918	2.755	0.579	1954	20566
Heteromorphite	$Pb_7Sb_8S_{19}$	C12/C1	68	4.146	281.947	0.681	1980	100295
Heterosite	$Fe_{0.65}Mn_{0.35}(PO_4)$	PMNB	24	2.252	54.039	0.491	1972	2909
Heulandite	$Ca_{0.6}(Al_{2.4}Si_{6.6}O_{18})(H_2O)_{4.77}$	C1M1	70	5.301	371.050	0.865	1968	22050
Heulandite	$Ca_{1.16}(Al_2Si_{6.95}O_{18})(H_2O)_6$	C12/M1	71	4.431	314.632	0.721	1972	25029
Hewettite	$Ca(V_6O_{16})(H_2O)_7$	P121/M1	32	4.000	128.000	0.800	1989	203169
Hewettite (Ba-exchanged)	$Ba_{0.9747}(V_6O_{16})(H_2O)_{1.667}$	PNMMZ	154	4.734	729.085	0.652	1998	51102
Hexacelsian	$Ba(AlSiO_4)_2$	P6/MMM	13	1.738	22.596	0.470	1958	38215
Hexacelsian (Eu-doped)	$BaAl_2Si_2O_8$	P63/MCM	26	1.738	45.192	0.370	2003	97411
Hexahydrite	$Mg(SO_4)(H_2O)_6$	C12/C1	96	4.627	444.156	0.703	1964	16546
Hexahydroborite	$Ca(B(OH)_4)_2(H_2O)_2$	C12/C1	26	2.777	72.211	0.591	1971	9132
Hexahydroborite	$Ca(B(OH)_4)_2(H_2O)_2$	P12/C1	26	2.777	72.211	0.591	1971	9133
Hexatestibiopanickelite	Ni_2SbTe	P63/MMC	4	1.000	4.000	0.500	1982	76698
Heyrovskyite	$Pb_6Bi_2S_9$	BBMM	34	3.264	110.974	0.642	2011	180078
Heyrovskyite	$Pb_6Bi_2S_9$	PNA21	136	5.087	691.895	0.718	2011	180079

Hibonite 5H	$(Ca_{0.85}Ce_{0.1}Mg_{0.05})(Al_{10.66}Mg_{0.47}Ti_{0.5}Fe_{0.29}Si_{0.08})O_{19}$	P63/MMC	66	3.187	210.362	0.527	1996	76837
Hibschite	$Ca_3(Al_{0.97}Fe_{0.03})_2Si_{2.05}(O_{0.79}F_{0.1}(H_2O)_{0.11})_{12}$	IA3-D	80	1.595	127.637	0.252	2008	161987
Hieratite	$K_2(SiF_6)$	FM3-M	9	1.224	11.020	0.386	1993	73722
Hilairite	$Na_{1.65}H_{0.36}Zr(SiO_3)_3(H_2O)_3$	R32H	20	2.595	51.909	0.601	2009	167591
Hilgardite	$CaSr(B_5O_9)Cl(H_2O)$	P1	20	4.322	86.439	1.000	2000	91540
Hilgardite	$Na_{0.5}Pb_2(B_5O_9)Cl(OH)_{0.5}$	PNN2	78	4.362	340.261	0.694	2000	91557
Hilgardite 1A	$Ca_2(B_5O_9)Cl(H_2O)$	P1	20	4.322	86.439	1.000	1994	74548
Hilgardite 4M	$Ca_2(B_5O_9)Cl(H_2O)$	A1A1	40	4.322	172.877	0.812	1979	100261
Hilgenstockite	$Ca_4(PO_4)_2O$	P1211	60	4.907	294.413	0.831	1973	2631
Hillebrandite	$Ca_2(SiO_3)(OH)_2$	CMC21	24	3.585	86.039	0.782	1995	80127
Hillite	$Ca_2(Zn_{0.62}Mg_{0.38})(PO_4)_2(H_2O)_2$	P-1	19	3.301	62.711	0.777	2003	55333
Hingganite-(Ce)	$Ce_{0.92}Be_{0.96}(Si_{0.98}O_4)(OH)$	P21/C	36	3.170	114.117	0.613	1986	84023
Hingganite-(Y)	$(Y_{0.65}Dy_{0.2}Ca_{0.15})_2Be_2Si_2Fe_{0.242}O_{8.43}(OH)_{1.57}$	P121/A1	34	3.146	106.974	0.618	2007	159410
Hingganite-(Yb)	$(Y_{.51}Yb_{.36}Ca_{.13})Fe_{.065}Be(SiO_4)(OH)$	P121/A1	34	3.146	106.974	0.618	1983	20628
Hinsdalite	$PbAl_3((P_{0.69}S_{0.31})O_4)_2((OH)_{5.62}(H_2O)_{0.38})$	R3-MH	25	2.432	60.812	0.524	1999	87867
Hiortdahlite I	$(Na_{3.2}Ca_{0.8})Ca_8Zr_2(Zr_{0.67}Ti_{0.33}Ca_{0.33}Mn_{0.33}Fe_{0.33})(Si_2O_7)_4O_{2.8}F_{5.2}$	P-1	60	4.907	294.413	0.831	1985	30994
Hiortdahlite II	$(Na_{2.12}Ca_{1.88})(Ca_{7.6}Y_{0.4})Zr_2(Y_{1.36}Na_{0.64})(Si_2O_7)_4O_3F_5$	P-1	60	4.907	294.413	0.831	1987	68175
Hocartite	$Ag_2Fe(SnS_4)$	I4-2M	8	1.750	14.000	0.583	1968	42534
Hodgkinsonite	$Zn_2Mn((OH)_2(SiO_4))$	P121/A1	48	3.585	172.078	0.642	1963	25709
Hodrushite	$PbCu_4Bi_5S_{11}$	A12/M1	42	4.440	186.477	0.823	1968	24462
Hodrushite	$Cu_{7.8}(Ag_{0.42}Bi_{11.58})S_{22}$	C12/M1	42	4.440	186.477	0.823	2003	55313
Hoegbomite 10T	$Al_{18}((Fe_{3.85}Zn_{1.93})Mg_{3.22})TiO_{38}(OH)_2$	P3-M1	70	4.168	291.726	0.680	2002	94592

Hoegbomite 12H	$Al_{24}(Fe_{0.5}Mg_{0.5})_8(Fe_{0.5}Ti_{0.5})_2O_{46}(OH)_2$	P63MC	84	4.373	367.367	0.684	2002	94593
Hoegbomite 14T	$Al_{28}(Fe_5Mg_5)(FeTi)O_{54}(OH)_2$	P3-M1	96	4.586	440.304	0.697	2002	94594
Hoegbomite 24R	$Al_{42}Mg_{15}Fe_{4.3}Ti_{4.7}O_{90}(OH)_6$	R3-MH	56	3.896	218.153	0.671	2002	94591
Hoegbomite 8H	$Fe_{2.21}Ti_{0.5}Mg_{0.7}Zn_{0.3}Al_{7.29}O_{15}(OH)$	P63MC	54	3.698	199.705	0.643	1982	30788
Hoelite	$C_{14}H_8O_2$	P121/A1	48	3.585	172.078	0.642	1967	58090
Hoganite	$Cu(C_2H_3O_2)_2(H_2O)$	C12/C1	72	4.170	300.235	0.676	1973	58099
Hogtuvaite	$Fe_{5.61}Mg_{.12}Ti_{.24}Al_{.38}Sn_{.03}(Ca_{1.71}Na_{.29})Si_{4.56}Be_{1.06}O_{20}$	P-1	68	5.117	347.947	0.841	2005	171805
Hohmannite	$Fe_2(H_2O)_4((SO_4)_2O)(H_2O)_4$	P-1	42	4.392	184.477	0.815	1978	37328
Hokutolite	$(Ba_{0.69}Pb_{0.31})(SO_4)$	PNMA	24	2.252	54.039	0.491	1959	39158
Holdawayite	$(Mn_{5.58}Mg_{0.42})(CO_3)_2(OH)_7(Cl_{0.85}(OH)_{0.15})$	C12/M1	60	4.940	296.413	0.836	1988	202600
Holdenite	$(Mn_{0.91}Mg_{0.09})_6Zn_3(OH)_8(AsO_4)_2(SiO_4)$	ABMA	128	4.188	536.000	0.598	1977	100075
Holfertite	$(UO_2)_{1.77}TiCa_{0.25}O_{3.61}(OH)_{0.67}(H_2O)_3$	P3	48	4.297	206.265	0.769	2005	156631
Hollandite	$Mn_{6.952}Fe_{0.64}Al_{0.264}Si_{0.016}Ba_{0.47}K_{0.328}Pb_{0.112}Na_{0.11}(OH)_{1.414}O_{14.586}$	I4/M	13	1.854	24.106	0.501	1950	30643
Hollandite	$Ba_{1.29}(Fe_{1.276}Al_{0.962}Ti_{5.661})O_{16}$	I4/M	14	1.950	27.303	0.512	2007	418149
Holmquistite	$Na_{0.08}Li_{7.28}Mg_{6.96}Fe_6(Al_{8.02}Si_{31.42}O_{88})(OH)_8$	PNMA	156	4.414	688.523	0.606	1975	141
Holmquistite	$Li_{1.46}Mg_{3.65}Fe_{2.09}Si_8O_{22}(OH)_2$	C12/M1	43	3.798	163.329	0.700	2004	171102
Holtedahlite	$Mg_{12}(HPO_4)(PO_4)_5(OH)_6$	P31M	54	3.828	206.686	0.665	1989	64769
Holtite	$Al_{6.45}Ta_{0.26}Si_{2.43}Sb_{0.36}As_{0.21}(BO_3)O_{14.43}(OH)_{0.22}$	PNMA	108	4.014	433.528	0.594	2005	250272
Holtite I	$(Al_{0.55}Ta_{0.32})Al_{5.77}(BO_3)(Si_{2.61}Sb_{0.238}As_{0.152})O_{14.59}(OH)_{0.04}$	PNMA	116	4.099	475.526	0.598	2009	168745
Holtite II	$(Ta_{.30}Al_{.26})(Al_{.95}Sb_{.05})_2Al_2(Al_{.98})_2(Si_{.65}Sb_{.30}As_{.05})_2(Sb_{.44})O_{9.30}O_{4.56}(BO_3)$	PNMA	112	4.022	450.424	0.591	2006	415321
Holtstamite	$Ca_3(Mn_{1.006}Al_{.994})Si_{1.95}O_8(OH)_4$	I41/ACDZ	96	3.002	288.156	0.456	2005	172124

Homilite	$Ca_2(Fe_{0.9}Mn_{0.03})B_2O_{1.86}(SiO_4)_2(OH)_{0.14}$	P121/A1	34	3.146	106.974	0.618	1985	47157
Hongquiite	TiO	FM3-M	2	1.000	2.000	1.000	1974	40125
Hopeite	$Zn_3(PO_4)_2(H_2O)_4$	PNMA	100	3.764	376.386	0.567	1975	1945
Hopeite alpha	$Zn_3(PO_4)_2(H_2O)_4$	PBNM	100	3.844	384.386	0.579	2004	413637
Hopeite beta	$Zn_3(PO_4)_2(H_2O)_4$	PBNM	96	3.835	368.156	0.582	2004	413638
Hortonolite	Fe_2SiO_4	PBNM	28	2.522	70.606	0.525	1977	10415
Horvathite-(Y)	$NaY(CO_3)F_2$	PMCN	32	2.750	88.000	0.550	1997	89258
Housleyite	$Pb_6Cu(Te_4O_{18}(OH)_2)$	P121/N1	62	3.986	247.160	0.670	2010	168001
Howardevansite	$NaCuFe_2(VO_4)_3$	P-1	38	4.301	163.421	0.819	1988	202529
Howieite	$(Na_{0.98}Ca_{0.02})Fe_{12}(Si_{11.92}Ti_{0.08}O_{31}(OH)_3)(OH)_9$	P-1	69	5.123	353.488	0.839	1974	6257
Howlite	$Ca_2(SiB_5O_9(OH)_5)$	P21/C	88	4.459	392.430	0.690	1970	15178
Hsianghualite	$Li_2Ca_3Be_3(SiO_4)_3F_2$	I213	100	3.432	343.249	0.517	1991	39389
Huanghoite-(Ce)	$BaCe(CO_3)_2F$	R3-MH	22	2.686	59.088	0.602	1993	74178
Huanghoite-(Sm)	$BaSm(CO_3)_2F$	R3-MH	22	2.686	59.088	0.602	1993	72444
Hubeite	$Ca_2MnFe(Si_4O_{12}(OH))(H_2O)_2$	P-1	56	4.807	269.212	0.828	2004	54837
Huebnerite	$Mn(WO_4)$	P12/C1	12	1.918	23.020	0.535	1993	67926
Hulsite	$Fe_3(BO_3)O_2$	P12/M1	18	3.392	61.059	0.813	1975	25101
Humberstonite	$K_3Na_7Mg_2(SO_4)_6(NO_3)_2(H_2O)_6$	R3-H	68	3.678	250.095	0.604	1994	79142
Humboldtine	$Fe(C_2O_4)(H_2O)_2$	C12/C1	22	2.550	56.107	0.572	2008	161344
Humite	$Zn_4(AsO_4)_2(OH)_2(H_2O)_2$	PBNM	72	4.170	300.235	0.676	1971	34846
Hummerite	$KMg(V_5O_{14})(H_2O)_8$	P-1	90	5.492	494.267	0.846	2002	95929
Hunchunite	$PbAu_2$	FD3-MS	6	0.918	5.510	0.355	1934	56261

Hundholmenite-(Y)	$(Sm_{7.71}Y_{4.38}Ca_{2.37}Na_{0.27}Mn_{0.03})(Al_{0.66}Fe_{0.27})Si_6B_3(Si_{0.69}As_{0.26}P_{0.05})(Ca_{0.78}As_{0.22})O_{34}(O_{2.64}F_{11.16})$	R3MH	75	4.531	339.799	0.727	2007	161009
Hungchaoite	$(Mg(H_2O)_5)(B_4O_5(OH)_4)(H_2O)_2$	P-1	78	5.285	412.261	0.841	1977	10423
Huntite	$CaMg_3(CO_3)_4$	R32H	20	2.595	51.909	0.601	1986	201729
Hureaulite	$Mn_5(PO_3(OH))_2(PO_4)_2(H_2O)_4$	C12/C1	58	3.892	225.763	0.664	1996	82617
Hurlbutite	$CaBe_2(PO_4)_2$	P121/A1	52	3.700	192.423	0.649	1974	4256
Hutchinsonite	$TlPbAs_{4.782}Sb_{.218}S_9$	PBCA	128	4.000	512.000	0.571	1994	74765
Huttonite	$Th(SiO_4)$	P121/N1	24	2.585	62.039	0.564	1978	1614
Hyalophane	$(Ba_{0.40}K_{0.47}Na_{0.13})(Si_{2.59}Al_{1.41}O_8)$	C12/M1	26	2.931	76.211	0.624	1983	31192
Hyalotekite	$Pb_{1.162}Ba_{2.838}Ca_2(B_2(Si_{1.62}Be_{0.38})Si_8O_{28})F$	I1-	47	4.576	215.066	0.824	1982	31186
Hydroandradite	$Ca_3Fe_2Si_{1.15}O_{4.6}(OH)_{7.4}$	IA3-D	128	1.952	249.804	0.279	1971	29247
Hydroboracite	$CaMg(B_3O_4(OH)_3)_2(H_2O)_3$	P12/C1	74	4.291	317.500	0.691	1978	200417
Hydrocalumite	$Ca_2Al(OH)_6Cl(H_2O)_2$	R3-H	12	1.959	23.510	0.546	2002	51890
Hydrocerussite	$Pb_3(CO_3)_2(OH)_2$	R3-MH	18	2.113	38.039	0.507	2002	280932
Hydrochlorborite	$Ca_2(B_3O_3(OH)_4OB(OH)_3)Cl(H_2O)_7$	I12/A1	184	5.524	1016.335	0.734	1978	100662
Hydrodresserite	$BaAl_2(CO_3)_2(OH)_4(H_2O)_3$	P-1	56	4.879	273.212	0.840	1982	201349
Hydrogrossular	$(Ca_{2.472}Fe_{0.528})(Al_{1.94}Fe_{0.06})Si_{2.829}O_{11.316}(OH)_{0.684}$	IA3-D	80	1.595	127.637	0.252	1984	30897
Hydrohalite	$NaCl(H_2O)_2$	P21/C	32	3.000	96.000	0.600	1974	2313
Hydrohematite (heated for 1 d at 473 K)	$Fe_{1.833}(OH)_{0.5}O_{2.5}$	R3-CH	10	0.971	9.710	0.292	1981	33692
Hydromagnesite	$Mg_5(CO_3)_4(OH)_2(H_2O)_4$	P21/C	74	4.236	313.500	0.682	1977	920
Hydromolysite	$FeCl_2(H_2O)_4Cl(H_2O)_2$	C12/M1	10	2.122	21.219	0.639	1967	30453
Hydroniumjarosite	$(H_3O)Fe_3(SO_4)_2(OH)_6$	R3-MH	20	2.333	46.664	0.540	2004	171105
Hydrophilite	$CaCl_2$	PNNM	6	0.918	5.510	0.355	1970	26158

Hydrorhodonite. lithian	$Li_{0.92}Na_{0.08}Mn_{3.66}Mg_{0.34}H(Si_5O_{15})$	P-1	50	4.644	232.193	0.823	1977	855
Hydroromarchite	$Sn_6O_4(OH)_4$	P4-21C	28	1.950	54.606	0.406	1996	203206
Hydrosodalite	$Na_8(Si_6Al_6O_{24})(OH)_2(H_2O)_2$	P222	48	3.918	188.078	0.702	1983	20630
Hydrosodalite	$Na_6(Al_6(Si_{5.5}(H_4)_{0.5})O_{24})(NaCl)_{0.4}(NaOH)_{0.7}$	P4-3N	86	2.646	227.561	0.412	1967	34203
Hydrotalcite	$(Mg_{0.667}Al_{0.333})(OH)_2(CO_3)_{0.167}(H_2O)_{0.5}$	R3-MH	13	2.046	26.596	0.553	1996	81963
Hydrouranospinite	$(UO_2)(HAsO_4)(H_2O)_4$	P-1	24	3.585	86.039	0.782	2003	250050
Hydroxyl-pyromorphite	$Pb_5(PO_4)_3(OH)$	P63/M	42	2.653	111.419	0.492	1998	87518
Hydroxylammonium alum	$(NH_3(OH))Al(SO_4)_2(H_2O)_{12}$	PA3-	240	3.514	843.302	0.444	1981	100401
Hydroxylbastnaesite-(Ce)	$(Ce_{0.5}Nd_{0.24}La_{0.23}Y_{0.03})(CO_3)((OH)_{0.65}F_{0.35})$	P6-	108	4.591	495.862	0.680	2008	159931
Hydroxylcancrinite	$Na_8(Al_6Si_6O_{24})(OH)_{1.4}(CO_3)_{.3}(H_2O)_{6.35}$	P3	51	4.274	217.970	0.753	1991	40668
Hydroxylchondrodite	$Mg_5(OH)_2(SiO_4)_2$	P21/B11	42	3.440	144.477	0.638	1977	947
Hydroxylclinohumite	$Mg_9(SiO_4)_4(OH)_2$	P21/B11	70	4.158	291.050	0.678	2000	411284
Hydroxylellestadite	$Ca_{10}(SiO_4)_3(SO_4)_3(F_{0.16}Cl_{0.48}(OH)_{1.36})$	P1121/M	42	4.011	168.477	0.744	1991	71350
Hydroxylellestadite	$Ca_{10}((SiO_4)_{2.54}(SO_4)_{2.18}(PO_4)_{1.28})((OH)_{1.64}F_{0.21}Cl_{0.15})$	P63/M	42	2.653	111.419	0.492	2006	156173
Hydroxylherderite	$CaBe(PO_4)(F_{0.52}(OH)_{0.48})$	P121/A1	32	3.000	96.000	0.600	2008	161640
Hydroxylsodalite	$Na_8(AlSiO_4)_6(OH)_2$	P4-3N	54	2.217	119.705	0.385	1987	60840
Hydroxylwagnerite	$Mg_2(PO_4)(OH)$	P21/C	144	5.170	744.469	0.721	1986	40829
Hydroxyvanadinite	$Pb_{9.262}(VO_4)_6(OH)_{1.4}$	P63/M	44	2.708	119.156	0.496	2006	155416
Hydroxyvanadinite	$Pb_{10}(VO_4)_6(OH)_2$	P1	44	5.459	240.215	1.000	2006	155417
Hydrozincite	$Zn_5(OH)_6(CO_3)_2$	C12/M1	19	3.090	58.711	0.727	1964	16583
Hypersthene. aluminian	$Mg(SiO_3)$	PBCA	80	3.322	265.754	0.525	1975	34074
Hyttsjoeite	$Ba_2Ca_5Mn_2Fe_2(Pb_{18}Si_{30}O_{90})Cl(H_2O)_6$	R3-H	156	4.957	773.308	0.680	1996	81642
Ianthinite	$(U_2(UO_2)_4O_6(OH)_4(H_2O)_4)(H_2O)_5$	P21CN	140	5.129	718.100	0.719	1997	84442

Ice 1h	H_2O	P63/MMC	20	1.371	27.419	0.317	1990	64776
Ice Ic	H_2O	FD3-MS	2	0.000	0.000	0.000	1960	29066
Ice II	H_2O	R3-CR	60	2.322	139.316	0.393	1964	16599
Ice III	H_2O	P41212	36	2.281	82.117	0.441	1968	64771
Ice IV	H_2O	R3-CR	80	2.895	231.637	0.458	1981	201179
Ice IX. deuterated	D_2O	P41212	60	2.974	178.413	0.503	1973	49810
Ice V	H_2O	A12/A1	70	4.158	291.050	0.678	1967	14318
Ice VI	H_2O	P42/NMCS	10	0.722	7.219	0.217	1965	16950
Ice VII	H_2O	PN3-MS	10	0.722	7.219	0.217	1964	31868
Ice VIII (deuterated)	D_2O	I41/AMDZ	12	0.918	11.020	0.256	1994	44102
Ice XI deuterated (KOH doped)	D_2O	CMC21	12	2.252	27.020	0.628	1985	47199
Ice XII	D_2O	I4-2D	30	2.174	65.207	0.443	1998	86858
Ice XV (deuterated)	D_2O	P-1	30	3.907	117.207	0.796	2009	166447
Iimoriite-(Y)	$Y_2(SiO_4)(CO_3)$	P-1	22	3.459	76.107	0.776	1999	88878
Ikaite	$Ca(CO_3)(H_2O)_6$	C12/C1	46	3.654	168.084	0.662	2004	151488
Ikunolite	$Bi_4S_{2.76}Se_{0.24}$	R3-MH	7	1.950	13.651	0.695	1959	25795
Ilesite	$Mn(SO_4)(H_2O)_4$	P121/N1	72	4.170	300.235	0.676	2002	280949
Ilimaussite-(Ce)	$(Ba_{7.9}K_{3.4}Na_{5.8}Th_{0.3}Sr_{0.1})(Ce_{3.7}Fe_{1.3})(Nb_{3.7}Ti_{2.0}Fe_{0.3})(Si_{12}O_{36})(Si_9O_{26.8}(OH)_{15.2})O_6$	R32H	148	4.791	709.029	0.665	2004	54835
Ilimaussite-(Ce)	$(Ba_{6.68}K_{2.74}Na_{1.50}Ca_{0.72})(Ce_{2.95}Fe_{0.55}Th_{0.35})(Ti_{4.92}Nb_{0.6})(Si_6O_{18})_4(OH)_{8.6}(H_2O)_{7.9}$	R32H	147	4.824	709.137	0.670	2003	98700
Illite	$(K_{0.74}Ca_{0.02}Na_{0.01})(Al_{1.35}Mg_{0.4}Fe_{0.28})((Si_{3.64}Al_{0.36})O_{10}(OH)_2)$	C12/M1	19	2.669	50.711	0.628	2010	166966

Illite 2M1	$K(Al_4Si_2O_9(OH)_3)$	C12/C1	38	3.301	125.421	0.629	2000	90144
Ilmenite	$FeTiO_3$	R3-H	10	1.371	13.710	0.413	1978	9805
Ilmenorutile	$(Ti_{0.8}Fe_{0.1}Nb_{0.1})O_2$	P42/MNM	6	0.918	5.510	0.355	1992	40723
Ilvaite	$CaFe_3O(OH)(Si_2O_7)$	PBNM	60	3.507	210.413	0.594	1974	4358
Ilvaite	$HCaFe_3O_2(Si_2O_7)$	P121/A1	64	4.000	256.000	0.667	1983	31307
Imandrite	$Na_{12}Ca_3Fe_2(Si_6O_{18})_2$	PMNN	66	3.529	232.930	0.584	1980	200805
Imgreite	NiTe	P63/MMC	4	1.000	4.000	0.500	1970	646904
Imhofite	$Tl_{5.6}As_{15}S_{25.32}$	P21/C	52	3.700	192.423	0.649	1976	653692
Imiterite	Ag_2HgS_2	P21/C	10	1.522	15.219	0.458	1985	201713
Inderborite	$CaMg(B_3O_3(OH)_5)_2(H_2O)_4(H_2O)_2$	C12/C1	104	4.739	492.846	0.707	1994	79155
Inderite	$Mg(B_3O_3(OH)_5)(H_2O)_5$	P21/C	128	5.000	640.000	0.714	1976	60
Indialite	$Mg_2(Al_4Si_5O_{18})$	P6/MCC	58	2.072	120.175	0.354	1994	75634
Indite	$FeIn_2S_4$	FD3-MS	14	1.379	19.303	0.362	1988	632378
Indium	In	I4/MMM	1	0.000	0.000	Nan	1954	64794
Inesite	$Ca_2Mn_7(Si_{10}O_{28})(OH)_2(H_2O)_5$	P-1	55	4.800	263.975	0.830	1978	20192
Ingersonite	$Ca_3Mn((Sb_{3.983}Mg_{0.017})O_{14}F_{0.15})$	P3121	66	3.641	240.322	0.602	2007	156736
Ingodite	$Bi(S_{0.56}Te_{0.44})$	P3-M1	12	2.585	31.020	0.721	1991	159346
Innelite	$Na_2Ba_4CaTi_3(Si_2O_7)_2(SO_4)_2O_4$	P1	42	5.392	226.477	1.000	1971	23181
Insizwaite	$PtBi_2$	PA3-	12	0.918	11.020	0.256	1994	77111
Intersilite	$Na_{5.8}K_{0.45}Mn(Ti_{0.75}Nb_{0.25})(Si_{10}O_{24})(OH)_{3.5}O_{0.5}(H_2O)_4$	I12/M1	102	4.967	506.587	0.744	1996	39945
Inyoite	$(Ca(H_2O)_3)(B_3O_3(OH)_5)(H_2O)$	P121/N1	116	4.858	563.526	0.708	1981	86466
Iodargyrite	AgI	P63MC	4	1.000	4.000	0.500	1963	15589
Iodolaurionite	Pb(OH)I	PNMA	12	1.585	19.020	0.442	1966	30628

Iowaite	$(Mg_3Fe(OH)_8Cl(H_2O)_2)_{0.75}$	R3-MH	6	1.918	11.510	0.742	1994	56286
Iranite	$CuPb_{10}(CrO_4)_6(SiO_4)_2(OH)_2$	P-1	53	4.747	251.580	0.829	2007	241129
Iridarsenite	$IrAs_2$	P21/C	12	1.585	19.020	0.442	1971	42573
Iridium	Ir	FM3-M	1	0.000	0.000	Nan	1955	64992
Iriginite	$((UO_2)(Mo_2O_7)(H_2O)_2)(H_2O)$	PBCM	60	3.240	194.413	0.549	2000	89898
Iron	Fe	IM3-M	1	0.000	0.000	Nan	1954	64999
Iscorite	$Fe_7(SiO_4)O_6$	P121/M1	36	4.170	150.117	0.807	1985	60968
Iscorite	Fe_7SiO_{10}	I12/M1	18	3.170	57.059	0.760	2005	154418
Isochalcopyrite (heated)	$Cu_{17.6}Fe_{17.6}S_{32}$	I4-3M	48	2.714	130.265	0.486	1956	24254
Isocubanite	$(CuFe_2S_3)_{1.333}$	F4-3M	3	1.585	4.755	1.000	1974	42105
Isoferroplatinum	$FePt_3$	PM3-M	4	0.811	3.245	0.406	1975	56275
Isokite	$CaMg(PO_4)(O_{0.2}F_{0.8})$	C12/C1	16	2.500	40.000	0.625	2007	240987
Isolueshite	$(Na_{0.75}La_{0.19}Ca_{0.06})((Nb_{0.5}Ti_{0.5})O_3)$	PM3-M	5	1.371	6.855	0.590	2000	90040
Isolueshite	$(Na_{0.75}La_{0.25})((Nb_{0.5}Ti_{0.5})O_3)$	CMCM	20	2.522	50.439	0.584	2000	90041
Isomertieite	$Pd_5(As_{0.5}Sb_{0.5})_2$	FD3-MS	28	1.842	51.586	0.383	1978	30009
Itoigawaite	$SrAl_2(OH)_2(Si_2O_7)(H_2O)$	P121/M1	30	3.240	97.207	0.660	2010	168066
Itoite	$PbGe_{0.33}(SO_4)_{0.67}O_{0.67}(OH)_{0.67}$	PNMA	24	2.252	54.039	0.491	1960	43796
Ivanyukite-Na-T	$Na_{1.44}K_{0.52}(Ti_4(OH)_{2.04}O_{1.96}(SiO_4)_3)(H_2O)_6$	R3MH	30	3.280	98.413	0.669	2009	165144
Iwakiite	$Mn_{1.7}Fe_{1.3}O_4$	I41/AMDZ	14	1.379	19.303	0.362	1988	76612
Iwashiroite-(Y)	$(Y_{0.78}Ho_{0.22})((Ta_{0.6}Nb_{0.4})O_4)$	P12/A1	12	1.918	23.020	0.535	2007	157842
Ixiolite	$Ta_{.42}Mn_{.30}Nb_{.24}Ti_{0.02}O_2$	PBCN	12	0.918	11.020	0.256	1976	12141
Izoklakeite	$Cu_{2.6}Fe_{1.4}Pb_{55.4}Bi_{23.1}Sb_{13.6}S_{114}$	PNNM	210	5.724	1201.992	0.742	1987	202309
Jacobsite	$MnFe_2O_4$	FD3-MS	14	1.379	19.303	0.362	1968	28517

Jacquesdietrichite	$Cu_2(BO(OH)_2)(OH)_3$	PNMA	56	3.379	189.212	0.582	2004	54883
Jadarite	$LiNa(SiB_3O_7(OH))$	P21/C	60	3.907	234.413	0.661	2007	249311
Jadeite	$NaAl(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	1973	10232
Jaffeite	$Ca_6(Si_2O_7)(OH)_6$	P3	54	4.346	234.686	0.755	1993	39725
Jagoite	$Pb_{22}Fe_4(Fe_5Si_{25}O_{82})Cl_6$	P6-2C	144	4.054	583.783	0.565	1981	100874
Jagowerite	$BaAl_2(PO_4)_2(OH)_2$	P-1	15	2.974	44.603	0.761	1974	6196
Jagueite	$(Cu_{1.9}Ag_{0.1})Pd_3Se_4$	P21/C	18	2.281	41.059	0.547	2006	156652
Jahnsite	$NaFe_{2.85}Mg_{1.93}(PO_4)_4(OH)_2(H_2O)_8$	P12/A1	96	4.710	452.156	0.715	2008	160402
Jahnsite-(Ca.Mn.Mg)	$CaMnMg_2Fe_2(OH)_2(PO_4)_4(H_2O)_8$	P12/A1	72	4.337	312.235	0.703	1974	6205
Jaipurite	CoS	P63/MMC	4	1.000	4.000	0.500	1987	601338
Jalpaite	Ag_3CuS_2	I41/AMDZ	24	1.918	46.039	0.418	2008	163982
Jalpaite	Ag_3CuS_2	I41/AZ	24	1.918	46.039	0.418	2008	163983
Jalpaite	Ag_3CuS_2	FM3-M	4	1.500	6.000	0.750	2008	163984
Jamborite	$(Ni(OH)_2(NiOOH)_{.167})_{.857}$	R3-MH	3	0.918	2.755	0.579	1950	76650
Jamesite	$Pb_2ZnFe_2(Fe_{2.8}Zn_{1.2})(AsO_4)_4(OH)_8((OH)_{1.2}O_{0.8})$	P-1	39	4.362	170.131	0.825	1999	87744
Jamesonite	$FePb_4Sb_6S_{14}$	P21/C	50	3.684	184.193	0.653	2003	98580
Jamesonite	$FePb_4Sb_6S_{14}$	P121/A1	50	3.684	184.193	0.653	2003	281655
Janhaugite	$Na_{2.31}Ca_{0.69}Mn_3Ti_{1.4}Zr_{0.6}(Si_2O_7)_2O_{1.69}F_2(OH)_{0.31}$	P121/N1	120	4.907	588.827	0.710	1985	30900
Jankovicite	$Tl_5Sb_9(Sb_{1.067}As_{2.933})S_{22}$	P-1	40	4.322	172.877	0.812	1995	79846
Jarlite	$Na_2(Sr_{12}Na_2)Mg_2Al_{12}F_{64}(OH)_4$	C12/M1	49	3.941	193.121	0.702	1983	40133
Jarosite	$KFe_3(SO_4)_2(OD)_6$	R3-MH	20	2.333	46.664	0.540	2010	166809
Jarosite	$Na_{0.84}Fe_{2.86}(SO_4)_2(OH)_6$	C12/M1	20	3.022	60.439	0.699	2010	168640
Jaskolskiite	$Pb_{1.65}Cu_{.16}Sb_{1.31}Bi_{1.04}S_5$	PBNM	40	3.322	132.877	0.624	1985	30972

Jasmundite	$Ca_{20.68}Mg_{1.32}(SiO_4)_8O_4S_2$	I4/MMM	34	2.617	88.974	0.514	1989	63412
Jeanbandyite	$FeSnO(OH)_5$	PN3-Z	32	1.061	33.961	0.212	1976	27661
Jennite	$Ca_9(Si_6O_{18})(OH)_6(H_2O)_8$	P-1	47	4.576	215.066	0.824	2004	151413
Jensenite	$Cu_3(TeO_6)(H_2O)_2$	P121/N1	48	3.585	172.078	0.642	1996	82481
Jentschite	$TlPbAs_2(As_{0.45}Sb_{0.55})S_6$	P121/N1	44	3.459	152.215	0.634	1996	83272
Jeppeite	$(K_{0.58}Ba_{0.36})_2(Ti_6O_{13})$	C12/M1	21	3.440	72.239	0.783	1977	200005
Jeremejevite	$Al_6(BO_3)_5F_3$	P63/M	58	2.693	156.175	0.460	1987	68320
Jerrygibbsite	$Mn_9(SiO_4)_4(OH)_2$	PBN21	124	4.954	614.320	0.712	1989	67041
Jervisite	$NaSc(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	1994	74553
Jimboite	$Mn_3(BO_3)_2$	PNMN	22	2.187	48.107	0.490	1978	34561
Jimthompsonite	$Mg_{10}(Si_{12}O_{32})(OH)_4$	*Pbca*	232	4.858	1127.052	0.618	1978	100657
Jinshajiangite	$(Ba_{0.58}K_{0.36})(Na_{0.60}Ca_{0.40})(Fe_{3.16}Mn_{0.63}Mg_{0.10}Zr_{0.04}Na_{0.07})Ti_2(Si_2O_7)_2O_2(OH)_2F$	C12/M1	124	5.245	650.320	0.754	2009	164877
Jinshajiangite	$(Ba_{1.44}K_{0.8}NaCa_{0.76})Ti_2(Ti_{1.6}Nb_{0.2}Zr_{0.2})(Fe_6Mn_{1.5}Mg_{0.5})(Si_2O_7)_4O_2(OH)_8F_2$	P12/M1	64	4.563	292.000	0.760	2008	173593
Joaquinite-(Ce)	$Ba_2Ce_2Ti_2Fe_{1.04}Na_{0.96}Si_8O_{26}(OH)(H_2O)$	C121	44	4.596	202.215	0.842	1975	4359
Joaquinite-(Ce)	$Ba_2FeCe_2Ti_2Si_8O_{26}$	C12/M1	42	3.916	164.477	0.726	1972	9377
Joelbruggerite	$Pb_3Zn_3((Sb_{0.57}Te_{0.43})(AsO_4)_2O_5(O_{0.43}(OH)_{0.57}))$	P321	25	2.783	69.567	0.599	2009	163887
Joergensenite	$Na_2(Sr_{11.6}Ba_{2.4})Na_2Al_{12}F_{64}(OH)_4$	C12/M1	49	3.941	193.121	0.702	1997	84626
Joesmithite	$(Pb_{0.93}K_{0.07})(Mg_{1.17}Fe_{0.83})(Mg_{0.86}Fe_{1.14})(Mg_{0.52}Fe_{0.48})(Ca_{1.9}Na_{0.1})(Si_{6.31}Be_{1.69}O_{22})(OH)_2$	P12/A1	80	4.522	361.754	0.715	1993	74285
Johachidolite	$CaAl(B_3O_7)$	CMMA	24	2.585	62.039	0.564	2008	161813
Johannite	$Cu(UO_2)_2(OH)_2(SO_4)_2(H_2O)_8$	P-1	27	3.792	102.382	0.797	1982	158902
Johannsenite	$CaMn(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	2010	168045

Johillerite	$(Na_{0.77}K_{0.03}Pb_{0.01}Ca_{0.01})(Cu_{1.6}Mg_{2.09}Fe_{0.25}Al_{0.06})(AsO_4)_3$	I12/A1	40	3.522	140.877	0.662	2004	54824
Johninnesite	$Na_2Mn_9(Mn_2Mg_5)(OH)_8(AsO_4)_2(Si_6O_{17})_2$	P-1	82	5.382	441.319	0.847	1994	75306
Johnsenite-(Ce)	$Na_{11.85}(Ce_{0.69}La_{0.36}Y_{0.24}Dy_{0.03}Sr_{0.51}Ca_{0.51}K_{0.15})((Ca_{5.16}Pr_{0.24}Nd_{0.18}Gd_{0.06})Mn_{0.36})(Mn_{2.19}Fe_{0.81})(Zr_{2.7}Ti_{0.3})(W_{0.82}Nb_{0.16})Si_{24.96}O_{73}(CO_3)((OH)_{0.5}Cl_{1.5})O_{1.88}$	R3MH	137	5.177	709.215	0.729	2006	156661
Johntomaite	$Ba(Fe_{0.85}Ca_{0.15})_2Fe_2(PO_4)_3(OH)_3$	P121/M1	46	3.741	172.084	0.677	2000	91709
Jokokuite	$Mn(SO_4)(H_2O)_5$	P-1	42	4.440	186.477	0.823	1982	41202
Jolliffeite	Ni(AsSe)	PA3-	12	0.918	11.020	0.256	1991	611065
Jonesite	$Ba_2(K_{0.8}Na_{0.2})(Ti_2(Si_5Al)O_{18}(H_2O))(H_2O)_{1.51}$	P121/M1	142	5.277	749.264	0.738	2004	98805
Joosteite	$(Mn_{1.572}Fe_{0.346})(PO_4)O$	I12/A1	32	3.000	96.000	0.600	2007	161026
Jordanite	$Pb_{28}As_{12}S_{46}$	P121/M1	86	4.589	394.659	0.714	1974	8167
Jouravskite	$Ca_3Mn(SO_4)(CO_3)(OH)_6(H_2O)_{12}$	P63	62	3.574	221.572	0.600	1969	26187
Juabite	$CaCu_{10}(TeO_3)_4(AsO_4)_4(OH)_2(H_2O)_4$	P-1	53	4.747	251.580	0.829	2000	89893
Juddite	$(Li_{0.18}Mg_{3.49}Fe_{0.77}Mn_{0.40}Ti_{0.10}Al_{0.06})(Na_{1.62}Ca_{0.30}Mn_{0.08})(K_{0.31}Na_{0.25})(Si_8O_{22.17}(OH)_{1.83})$	C12/M1	42	3.773	158.477	0.700	1986	158739
Julgoldite. ferrian	$Ca_8(Fe_{2.7}Al_{1.1}Mg_{0.2})Fe_8Si_{12}O_{42}(OH)_{14}$	A12/M1	44	4.096	180.215	0.750	2003	96796
Julienite	$Na_2Co(NCS)_4(H_2O)_8$	P4-	92	4.589	422.168	0.703	1953	16830
Julienite	$Na_2(Co(NCS)_4)(H_2O)_8$	P121/N1	92	4.524	416.168	0.693	1982	27223
Junitoite	$CaZn_2(Si_2O_7)(H_2O)$	AMA2	26	3.085	80.211	0.656	1985	40526
Junoite	$Cu_2Pb_3Bi_8(S_{13.2}Se_{2.8})$	C12/M1	29	3.892	112.881	0.801	1975	30777
Jurbanite	$(Al_2(OH)_2(H_2O)_8)(SO_4)_2(H_2O)_2$	P121/N1	92	4.524	416.168	0.693	1985	61493
Kaatialaite	$Fe(H_2AsO_4)_3(H_2O)_5$	P121/N1	84	4.392	368.955	0.687	1981	15550

Kaersutite	$(Na_{0.53}K_{0.41})(Ca_{2.04}(Mg_{3.01}Fe_{1.07}Mn_{0.02}Ti_{0.52}Al_{0.34}))((Si_{5.88}Al_{2.12})O_{22})(OH)_2$	C12/M1	42	3.773	158.477	0.700	1989	67049
Kafehydrocyanite (deuterated)	$K_4(Fe(CN)_6)(D_2O)_3$	A12/A1	60	4.107	246.413	0.695	1970	23767
Kainite	$KMg(SO_4)Cl(H_2O)_{2.75}$	C12/M1	86	4.659	400.659	0.725	1972	26003
Kainosite-(Y)	$Y_2Ca_2Si_4O_{12}(CO_3)(H_2O)$	PMNB	108	4.014	433.528	0.594	1989	67039
Kalborsite	$K_6Al_4Si_6BH_4O_{24}Cl$	P4-21C	92	3.697	340.168	0.567	1980	34580
Kaliborite	$HKMg_2(B_{12}O_{16})(OH)_{10}(H_2O)_4$	C12/C1	128	5.031	644.000	0.719	1994	76660
Kalicinite	$K(HCO_3)$	P121/A1	28	2.807	78.606	0.584	1974	2325
Kalicinite high	$K(HCO_3)$	C12/M1	14	2.236	31.303	0.587	1994	75536
Kalifersite	$K_5Fe_7Si_{20}O_{50}(OH)_6(H_2O)_{12}$	P-1	102	5.692	580.587	0.853	1998	85700
Kalininite	Cr_2ZnS_4	FD3-MS	14	1.379	19.303	0.362	1986	626670
Kalipyrochlore	$(Sr_{0.05}Ca_{0.01}(H_2O)_{0.99})(Nb_{1.80}Ti_{0.20})(O_{4.06}(OH)_{1.94})((H_2O)_{0.86}K_{0.14})$	FD3-MZ	22	1.686	37.088	0.378	1994	79145
Kalsilite 1H	$KAl(SiO_4)$	P63MC	24	1.896	45.510	0.414	1977	100038
Kalsilite 1T	$KAl(SiO_4)$	P31C	14	2.128	29.793	0.559	1997	83449
Kambaldaite	$Na_2Ni_8(CO_3)_6(OH)_6(H_2O)_6$	P63	64	3.514	224.902	0.586	1985	201807
Kamchatkite	$KCu_3OCl(SO_4)_2$	PNA21	64	4.000	256.000	0.667	1990	66309
Kamiokite	$Fe_2(Mo_3O_8)$	P63MC	26	2.603	67.682	0.554	1986	61069
Kampfite	$Ba_{11.68}((Si_{11}Al_5)O_{32})(CO_3)_8Cl_{4.96}$	C1C1	50	4.644	232.193	0.823	2007	158188
Kamphaugite-(Y)	$(Ca_{0.93}Y_{0.07})(Y_{0.9}Gd_{0.1})(CO_3)_2(OH)(H_2O)$	P41212	96	3.585	344.156	0.544	1993	66680
Kanemite	$Na(Si_2O_4(OH))(H_2O)_3$	PBCN	44	2.732	120.215	0.500	1999	88618
Kanoite	$(Mn_{0.02}Mg_{0.98})(Mn_{0.78}Mg_{0.15}Ca_{0.07})(Si_2O_6)$	P21/C	40	3.322	132.877	0.624	1996	82769
Kanoite	$Mn_{0.90}Mg_{1.10}Si_2O_6$	C12/C1	20	2.522	50.439	0.584	1998	86579

Kanonaite	$Mn_{0.86}Al_{1.14}(SiO_4)O$	PNNM	32	2.750	88.000	0.550	1981	100748
Kaolinite 1A	$Al_2(Si_2O_5)(OH)_4$	C1	17	4.087	69.487	1.000	1993	80082
Kaolinite 2M	$Al_2Si_2O_5(OH)_4$	C1C1	26	3.700	96.211	0.787	1932	30285
Kapellasite	$Cu_3Zn(OH)_6Cl_2$	P3-M1	18	2.071	37.284	0.497	2008	162099
Kapitsaite-(Y)	$(Ba_{3.68}K_{0.12}Pb_{0.20})(YCa_{0.66}Gd_{0.34})(Si_8B_2(B_{1.70}Si_{0.30})O_{28}F)$	I1-	47	4.576	215.066	0.824	2000	91862
Kapundaite	$(Na_{1.34}Ca_{0.66})Fe_4(PO_4)_4(OH)_3(H_2O)_5$	P-1	30	3.974	119.207	0.810	2010	168051
Kapustinite	$Na_{5.31}Mn_{0.24}Zr_{0.91}Nd_{0.09}Ti_{0.1}(Si_6O_{16}(OH)_2)$	C12/M1	33	3.650	120.465	0.724	2004	250170
Karelianite	V_2O_3	R3-CH	10	0.971	9.710	0.292	1977	1473
Karelianite low	V_2O_3	I12/A1	10	1.522	15.219	0.458	1970	6286
Karlite	$Mg_{6.05}Al_{0.3}Fe_{0.15}(BO_3)_3(OH)_4Cl_{0.4}$	P21212	108	4.792	517.528	0.709	1986	29524
Karrooite	$MgTi_2O_5$	BBMM	16	2.250	36.000	0.563	2007	157217
Kasolite	$Pb(UO_2)(SiO_4)(H_2O)$	P21/C	40	3.322	132.877	0.624	1977	1149
Kassite. chromian	$Ca(Ti_2O_4(OH)_2)$	I12/A1	18	2.281	41.059	0.547	2003	96797
Kassite. chromian	$Ca(Ti_2O_4(OH)_2)$	P121/A1	36	3.170	114.117	0.613	2003	96798
Kastningite	$(Mn(H_2O)_4)(Al_2(OH)_2(H_2O)_2(PO_4)_2)(H_2O)_2$	P-1	82	5.382	441.319	0.847	1999	410793
Katayamalite	$KLi_3Ca_7Ti_2(Si_6O_{18})_2F_2$	C12/C1	126	5.025	633.137	0.720	1992	158030
Katoite	$Ca_3Al_2(HO)_{12}$	IA3-D	68	1.160	78.850	0.190	1969	9272
Katophorite	$(Na_{.36}K_{.16})(Na_{1.74}Ca_{.26})(Mg_{3.25}Fe_{1.69}Li_{.06})(Si_{7.6}Al_{.4})O_{22.6}F_{1.4}$	C12/M1	40	3.672	146.877	0.690	1993	64813
Katoptrite	$(Mn_5Sb_2)(Mn_8Al_4Si_2O_{28})$	C12/M1	49	3.900	191.121	0.695	1976	12137
Kawazulite	Bi_2SeTe_2	R3-MH	5	1.522	7.610	0.655	1963	42543
Kazakovite	$Na_6Mn(Ti(SiO_3)_6)$	R3-MR	33	2.816	92.916	0.558	1979	200602
Keatite	SiO_2	P41212	36	2.281	82.117	0.441	1999	162626

Keithconnite	$Pd_{20}Te_7$	R3-H	27	2.383	64.343	0.501	1977	42551
Keiviite-(Er)	$Er_2(Si_2O_7)$	C12/M1	11	2.187	24.054	0.632	1998	86148
Keiviite-(Yb)	$Yb_2(Si_2O_7)$	C12/M1	11	2.187	24.054	0.632	1994	74780
Keldyshite	$NaZr(Si_2O_6OH)$	P-1	22	3.459	76.107	0.776	1978	20186
Kelyanite	$(Hg_2)_6(SbO_6)BrCl_2$	P3	66	4.604	303.832	0.762	2008	161636
Kempite	$Mn_2Cl(OH)_3$	PNMA	24	2.252	54.039	0.491	2006	155536
Kenhsuite	$Hg_3S_2Cl_2$	A2MM	16	2.750	44.000	0.688	1968	29253
Kennedyite	$(Fe_{.33}Ti_{.46}Mg_{.21})(Ti_{1.9}Mg_{.1})O_5$	CMCM	16	2.250	36.000	0.563	1990	69041
Kentbrooksite	$(Na_{12.97}K_{0.3})(Ca_{3.37}Sr_{0.16}Ce_{1.37}Y_{0.43})(Fe_{0.74}Mn_{3.78}Al_{0.14})Zr_{2.82}Ti_{0.13}Hf_{0.05}(Si_{1.11}Nb_{0.55}Zr_{0.13}Ti_{0.08})(Si_{24}O_{72})O_{2.13}Cl_{0.27}F_{1.54}(OH)_{1.22}$	R3MH	132	5.122	676.155	0.727	1999	56952
Kentrolite	$Pb_2(Mn_2Si_2O_9)$	P21221	60	4.040	242.413	0.684	2008	159978
Kentrolite. ferrian	$Pb_2(Mn_{.68}Fe_{.32})_2Si_2O_9$	PBCN	60	3.107	186.413	0.526	1991	40625
Kermesite	Sb_2OS_2	P-1	20	3.322	66.439	0.769	1987	68346
Kernite	$Na_2(B_4O_6(OH)_2)(H_2O)_3$	P21/C	100	4.644	464.386	0.699	1973	10378
Kesterite	$Cu_{1.98}(Zn_{0.72}Fe_{0.28})Sn_{0.99}S_4$	I4-	8	2.000	16.000	0.667	1978	200419
Kettnerite	$CaBi(CO_3)OF$	PMMNZ	16	2.750	44.000	0.688	1999	87759
Kettnerite	$CaBi(OF(CO_3))$	PBAA	32	2.750	88.000	0.550	2007	157756
Keyite	$Cu_3(Zn_{3.68}Cu_{0.32})Cd_2(AsO_4)_6(H_2O)_2$	I12/A1	42	3.630	152.477	0.673	1996	82482
Khademite	$Al(SO_4)F(H_2O)_5$	PCAB	176	4.505	792.860	0.604	1981	41562
Khaidarkanite	$Cu_4Al_3(OH)_{14}F_3(H_2O)_2$	C12/M1	10	2.522	25.219	0.759	2009	164675
Khamrabaevite	TiC	FM3-M	2	1.000	2.000	1.000	1978	1546
Khanneshite	$(Na_{2.75}Ca_{0.23})(Sr_{0.63}Ba_{1.08}Ce_{0.82}Ca_{0.46})(CO_3)_5$	P63MC	52	3.007	156.345	0.527	2002	95452
Khatyrkite	Al_2Cu	I4/MCM	6	0.918	5.510	0.355	1989	42517

Khibinskite	$K_2Zr(Si_2O_7)$	B112/M	96	4.960	476.156	0.753	1976	166608
Khinite	$PbCu_3(TeO_6(OH)_2)$	FDD2	22	2.914	64.107	0.653	2008	164134
Khmaralite	$(Mg_{5.47}Al_{8.61}Fe_{1.92})(Al_{5.66}Be_{1.47}Fe_{0.07}Si_{4.80})O_{40}$	P21/C	272	6.087	1655.790	0.753	1999	87692
Khomyakovite	$(Na_{11.36}K_{0.37})(Ca_{6.48}Sr_{2.73}Ce_{0.07})(Fe_{2.06}Mn_{0.8})Zr_3(Si_{1.04}Nb_{0.31}W_{0.52})(Si_{24}O_{72})O_{3.51}Cl_{0.64}(OH)_{0.49}$	R3MH	132	5.122	676.155	0.727	1999	56956
Kiddcreekite	Cu_6SnWS_8	P4-3N	64	1.913	122.412	0.319	1985	602043
Kidwellite	$NaFe_9Cu_{0.36}(P_{0.921}As_{0.079}O_4)_6(OH)_{11}(H_2O)_3$	P12/C1	118	4.933	582.152	0.717	2004	151489
Kieftite	$CoSb_3$	IM3-	16	0.811	12.980	0.203	1974	34048
Kieserite	$Mg(SO_4)(H_2O)$	C12/C1	18	2.503	45.059	0.600	1970	6302
Kilchoanite (Mn-bearing)	$(Ca_{2.33}Mn_{.67})(Si_2O_7)$	I2CM	48	3.835	184.078	0.687	1989	63499
Killalaite	$Ca_{6.43}(Si_2O_7)_2(H_2O)_2$	P121/M1	54	3.940	212.764	0.685	1977	200124
Kimrite	$(Ba_{0.77}(H_3O)_{0.23})(Al_2Si_2(O_{7.77}(OH)_{0.23}))(H_2O)$	P6/MMM	8	1.750	14.000	0.583	1966	166575
Kimzeyite	$(Ca_{2.97}Ba_{.03})(Mg_{0.11}Zr_{1.12}Ti_{0.68}Fe_{0.08})((Si_{1.35}Al_{0.81}Fe_{0.84})O_{12})$	IA3-D	80	1.595	127.637	0.252	2001	158102
Kingite	$Al_3(PO_4)_2(F_{1.7}(OH)_{0.3})(OH)(H_2O)_7$	P-1	46	4.524	208.084	0.819	2003	96811
Kingstonite	$(Rh_{2.27}Ir_{0.73})S_4$	C12/M1	21	2.869	60.239	0.653	2005	155237
Kinichilite	$Mg_{0.51}(Fe_{0.98}Zn_{0.54}Mn_{0.48})(TeO_3)_3(H_2O)_{4.5}$	P63/M	36	2.405	86.568	0.465	1995	79850
Kinoite	$Cu_2Ca_2Si_3O_{10}(H_2O)_2$	P121/M1	46	3.741	172.084	0.677	1971	15185
Kinoshitalite	$(Ba_{0.94}K_{0.06})(Mg_{2.744}Mn_{0.256})(Al_2Si_2O_{10})(OH)_2$	C12/M1	22	3.005	66.107	0.674	2000	89802
Kintoreite	$PbFe_3H_{0.94}((PO_4)_{0.97}(SO_4)_{0.03})_2(OH)_6$	R3-MH	25	2.432	60.812	0.524	2009	163284
Kipushite	$Cu_5Zn(OH)_6(H_2O)(PO_4)_2$	P21/C	92	4.524	416.168	0.693	1985	201847
Kirchheimerite	$Co(UO_2AsO_4)_2(H_2O)_{12}$	P-1	29	3.892	112.881	0.801	2004	171961
Kirkiite	$Pb_{10}Bi_3As_3S_{19}$	P121/M1	70	4.329	303.050	0.706	2006	156249
Kirschsteinite	$Ca(Fe_{0.69}Mg_{0.31})(SiO_4)$	PBNM	28	2.522	70.606	0.525	1997	83825

Kitkaite	NiSeTe	P3-M1	3	0.918	2.755	0.579	1965	42560
Kladnoite	$C_8H_5NO_2$	P121/N1	64	4.000	256.000	0.667	1972	56903
Klebelsbergite	$Sb_4O_4(OH)_2SO_4$	PCA21	68	4.087	277.947	0.671	1980	100340
Kleberite	$Ti_{0.374}O_{0.5}(OH)_{0.5}$	CMCM	4	1.000	4.000	0.500	1978	107981
Kleinite	$(Hg_2N)((SO_4)_{0.25}Cl_{0.5})(H_2O)_{0.5}$	P63/MMC	30	2.423	72.677	0.494	1996	83018
Klockmannite	CuSe	P63/MMC	12	1.918	23.020	0.535	2002	94676
Klyuchevskite	$K_3Cu_3(Fe_{.82}Al_{.18})O_2(SO_4)_4$	I121	58	4.892	283.763	0.835	1992	67698
Knasibfite	$K_3Na_4(SiF_6)_3(BF_4)$	IMM2	33	3.832	126.465	0.760	2008	160430
Knorringite	$Mg_3(Cr_{0.84}Mg_{0.08}Si_{0.08})_2(SiO_4)_3$	IA3-D	80	1.595	127.637	0.252	2010	166058
Koashvite	$Na_6(Ca_{0.9}Mn_{0.35})(Fe_{0.5}Ti_{0.5})(Si_6O_{18})$	PMNB	132	4.438	585.860	0.630	1980	86517
Kobellite	$Bi_{7.89}Cu_{1.12}Fe_{.88}Pb_{12}Sb_{6.11}S_{35}$	PNNM	126	4.993	629.137	0.716	1971	23595
Kochite	$(Zr_{1.28}Ca_{1.18}Fe_{0.24}Mn_{1.10}Ce_{0.08}Y_{0.04})(Ca_5Na_5)(Ti_{1.74}Nb_{0.2}Zr_{0.06})(Si_2O_7)_4F_4(O_{2.4}F_{1.6})$	P-1	60	4.974	298.413	0.842	2003	98202
Koechlinite	Bi_2MoO_6	PCA21	36	3.170	114.117	0.613	1984	201685
Koenenite (OH-partial structure)	$(Mg_7Al_4(OH)_{22})_{.09091}$	P3-M1	3	0.918	2.755	0.579	1968	22306
Koettigite	$Zn_3(AsO_4)_2(H_2O)_8$	C12/M1	37	3.480	128.750	0.668	1979	100492
Kogarkoite	$Na_3(SO_4)F$	R3MR	9	2.113	19.020	0.667	1973	9519
Kogarkoite	$Na_3(SO_4)F$	P121/M1	108	5.347	577.528	0.792	1980	31145
Kolbeckite	$Sc(PO_4)(H_2O)_2$	P121/N1	48	3.585	172.078	0.642	2007	240988
Kolicite	$Mn_7(OH)_4(As_2Zn_4Si_2O_{16}(OH)_4)$	CMCA	78	3.593	280.261	0.572	1980	100183
Komarovite-(Na)	$K_{0.18}Na_{5.03}Ca_{1.79}Ti_{1.02}Nb_{4.98}(Si_4O_{12})O_{14}F_2(H_2O)_4$	CMMM	50	3.764	188.193	0.667	2002	97996
Kombatite	$Pb_{14}(VO_4)_2O_9Cl_4$	C12/C1	74	4.291	317.500	0.691	1994	75288
Komkovite	$BaZr(Si_3O_9)(H_2O)_{2.43}$	R32H	34	2.924	99.425	0.575	1991	39541

Konyaite	$Na_2Mg(SO_4)_2(H_2O)_5$	P21/C	100	4.644	464.386	0.699	2009	163888
Koragoite	$(Mn_{2.76}Fe_{0.1})(Nb_{0.8}Mn_{0.2})_2(Nb_2Ta_{0.65}W_{0.1})(W_{1.71}Ti_{0.09})O_{20}$	P121	60	4.907	294.413	0.831	1995	39872
Koritnigite	$Zn((H_2O)(HAsO_4))$	P-1	56	4.807	269.212	0.828	1980	100581
Kornelite	$(Fe_2(H_2O)_6)(SO_4)_3(H_2O)_{1.76}$	P121/N1	136	5.087	691.895	0.718	2009	165668
Kornerupine	$(Mg_{.16}Fe_{.13})(Mg_{1.64}Fe_{.2})Mg(Al_{1.64}Mg_{.36})Al_4Si_2((Al_{1.12}Si_{.88})(Si_{.68}Al_{.32})O_{20.55})(OH)_{1.2}F_{.25}$	CMCM	76	4.143	314.842	0.663	1991	71044
Korshunovskite	$Mg_2(OH)_3Cl(H_2O)_4$	P-1	20	3.322	66.439	0.769	1953	24668
Kosmochlor	$NaCr(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	2003	97253
Kosnarite	$Na_{0.5}K_{0.5}Hf_2(PO_4)_3$	R3-CH	36	2.071	74.568	0.401	2010	174461
Kostylevite	$K_2ZrSi_3O_9(H_2O)$	P1121/B	64	4.000	256.000	0.667	1981	20147
Kotoite	$Mg_3(BO_3)_2$	PNMN	22	2.187	48.107	0.490	1984	31385
Kotulskite	PdTe	P63/MMC	4	1.000	4.000	0.500	1965	42552
Koutekite	Cu_5As_2	IBAM	14	1.950	27.303	0.512	1971	26253
Kovdorskite	$Mg_2(PO_4)(OH)(H_2O)_3$	P121/A1	44	3.459	152.215	0.634	1980	20796
Kozoite-(Nd)	$(Nd_{0.425}La_{0.305}Pr_{0.09}Sm_{0.07}Gd_{0.04}Eu_{0.025}Ce_{0.005}Dy_{0.005}Y_{0.015}Ca_{0.02})(CO_3)(OH)$	PMCN	24	2.252	54.039	0.491	2000	89710
Kozulite	$Ca_{0.18}K_{0.21}Mg_{2.31}Mn_{2.91}Na_{2.32}Si_8O_{22}(OH)_2$	C12/M1	40	3.672	146.877	0.690	2010	261124
Krasnogorite high	WO_3	PCNB	32	2.000	64.000	0.400	1999	50731
Krasnoselskite	$Co(WO_4)$	P12/C1	12	1.918	23.020	0.535	1976	15851
Kratochvilite	$C_{13}H_{10}$	PNAM	52	2.777	144.423	0.487	1955	56904
Krausite	$KFe(SO_4)_2H_2O$	P121/M1	30	3.507	105.207	0.715	1986	201732
Krauskopfite	$Ba(Si_2O_5)(H_2O)_3$	P21/C	68	4.087	277.947	0.671	1967	26971
Krautite	$Mn(HAsO_4)(H_2O)$	P1211	56	4.807	269.212	0.828	1979	100543

Krautite (deuterated)	$Mn(AsO_3(OD))(D_2O)$	P1211	80	5.322	425.754	0.842	1994	79619
Kremersite	$(NH_4)_2(FeCl_5(H_2O))$	PNMA	76	3.511	266.842	0.562	1978	200322
Krennerite	$(Au_{0.81}Ag_{0.19})Te_2$	PMA2	24	2.918	70.039	0.636	1984	158938
Krettnichite	$(Pb_{0.83}Sr_{0.17})Mn_2(VO_4)_2(OH)_2$	C12/M1	15	2.707	40.603	0.693	2001	92914
Krinovite	$Na(Mg_{1.9}Fe_{0.1})Cr(SiO_3)_3O$	P-1	68	5.117	347.947	0.841	1989	67231
Kristiansenite	$Ca_2(Sc_{0.76}Fe_{0.205}Sn_{1.035})(Si_2O_7)(Si_2O_6(OH))$	C1	44	5.459	240.215	1.000	2001	94488
Krivovichevite	$Pb_3(Al(OH)_6)(SO_4)(OH)$	R3CH	32	2.811	89.961	0.562	2009	163136
Kroehnkite	$Na_2Cu(SO_4)_2(H_2O)_2$	P21/C	38	3.301	125.421	0.629	1975	1915
Krupkaite	Bi_3CuPbS_6	PNMA	24	2.585	62.039	0.564	1976	616594
Krutaite	$CuSe_2$	PA3-	12	0.918	11.020	0.256	2002	94688
Krutovite	$NiAs_2$	PA3-	12	0.918	11.020	0.256	1968	42569
Kryzhanovskite	$Fe_2Mn(OH)_2(H_2O)(PO_4)_2$	PBNA	64	3.125	200.000	0.521	1980	31147
Ktenasite	$Zn_2(Cu_{4.8}Zn_{3.2})(SO_4)_4(OH)_{12}(H_2O)_{12}$	P21/C	90	4.514	406.267	0.695	1978	200402
Kuannersuite-(Ce)	$Ba_{5.886}(Ce_{0.59}Nd_{0.26}La_{0.15})_2Na_{2.34}(PO_4)_6F(F_{0.41}Cl_{0.59})$	P3-	42	3.081	129.419	0.571	2004	98908
Kudriavite	$Pb_{0.53}Cd_{0.5}Bi_{1.78}In_{0.19}(S_{0.95}Se_{0.05})_4$	C12/M1	14	2.950	41.303	0.775	2007	157295
Kukharenkoite-(Ce)	$Ba_2Ce(CO_3)_3F$	P121/M1	32	3.625	116.000	0.725	1998	85572
Kukharenkoite-(La)	$Ba_2La(CO_3)_3F$	P121/M1	32	3.625	116.000	0.725	2003	250059
Kukisvumite	$Na_6ZnTi_4(Si_2O_6)_4O_4(H_2O)_4$	PCCN	132	4.075	537.860	0.578	2000	92530
Kuksite	$Pb_3Zn_3Te(P_{1.59}As_{0.41})O_{14}$	P321	23	2.588	59.513	0.572	2010	168003
Kulanite	$Ba(Fe_{1.19}Mg_{0.61}Mn_{0.085})(Al_{1.87}Fe_{0.13})(PO_4)_3(OH)_3$	P121/M1	54	3.940	212.764	0.685	1994	79136
Kuliokite-(Y)	$Y_4(AlSi_2O_8)F_5(OH)_2$	P1	22	4.459	98.107	1.000	1986	65361
Kumtyubeite	$Ca_5(SiO_4)_2((OH)_{0.6}F_{1.4})$	P121/A1	34	3.146	106.974	0.618	2009	165510
Kupcikite	$(Cu_{3.42}Fe_{0.58})Bi_5S_{10}$	C12/M1	19	3.301	62.711	0.777	2003	55302

Kupletskite 1A	$K_2Na_{1.026}Ca_{0.356}(Mn_{5.926}Mg_{0.64})(Ti_{1.896}Nb_{0.104})Si_8O_{26}(OH)_4F$	P-1	51	4.731	241.294	0.834	2001	92945
Kupletskite Ma2b2c	$K_2Na_{0.776}Ca_{0.398}(Mn_{6.6}Mg_{0.138})(Ti_{1.762}Nb_{0.238})Si_8O_{26}(OH)_4F$	C12/C1	102	4.770	486.587	0.715	2001	92946
Kupletskite-(Cs)	$(Cs_{1.42}K_{0.36}Ca_{0.08}Pb_{0.06}Na_{0.05}Sr_{0.02})(Na_{0.73}Ca_{0.27})(Fe_{1.96}Mn_{3.74}Mg_{0.11}Li_{0.68}Zn_{0.5})(Ti_{1.54}Nb_{0.46})(Si_{7.95}Al_{0.05}O_{24})O_2(OH)_4(O_{0.03}(OH)_{0.26}F_{0.71})$	P-1	53	4.785	253.580	0.835	2010	166993
Kuramite	Cu_2SnS_3	I4-2M	8	1.750	14.000	0.583	1998	50965
Kurchatovite	$CaMg(B_2O_5)$	PBCA	216	4.755	1027.056	0.613	2003	97706
Kurnakovite	$(Mg(H_2O)_4)(B_3O_3(OH)_5)(H_2O)$	P-1	64	5.000	320.000	0.833	1974	2153
Kusachiite	Bi_2CuO_4	P4/NCCZ	28	1.379	38.606	0.287	1993	56390
Kutinaite	$Cu_{14}Ag_6As_7$	PM3-M	116	3.126	362.615	0.456	2002	95930
Kutnohorite. magnesian	$(Ca_{0.86}Mn_{0.14})(Ca_{0.14}Mn_{0.5}Fe_{0.13}Mg_{0.23})(CO_3)_2$	R3-H	10	1.571	15.710	0.473	1988	71005
Kuzelite	$(Ca_2Al(OH)_6)((SO_4)_{0.5}(H_2O)_3)$	R3-H	24	2.480	59.510	0.541	1977	100138
Kuzmenkoite	$(K_{3.26}(H_3O)_{1.3}Na_{0.35}Ba_{0.06})(Mn_{1.12}Nb_{0.28})(H_2O)_{8.5}(Ti_{6.8}Fe_{0.8}Nb_{0.4})((OH)_{7.73}O_{0.27})(Si_4O_{12})_4$	C1M1	47	4.704	221.066	0.847	2000	91559
Kuzminite	Hg_2Br_2	I4/MMM	4	1.000	4.000	0.500	1970	23721
Kuznetsovite	$(Hg_3)(AsO_4)Cl$	P213	36	2.113	76.078	0.409	2001	411757
Kvanefjeldite	$Na_4(Ca_{.5}Mn_{.5})(Si_3O_7(OH))_2$	PCAB	116	3.892	451.526	0.568	1983	31260
Kyanite	$Al_2(SiO_4)O$	P-1	32	4.000	128.000	0.800	1997	77541
Labuntsovite	$Ti_8Ba_2MnK_4Na_4(Si_4O_{12})_4(OH)_{16}(H_2O)_2$	C12/M1	101	4.916	496.479	0.738	2004	171557
Lacroixite	$NaAlF(PO_4)$	C12/C1	16	2.500	40.000	0.625	1985	40522
Laffittite	$AgAsHgS_3$	C1C1	12	2.585	31.020	0.721	1983	653762
Laihunite 1M	$Fe_{1.5}(SiO_4)$	P21/B11	26	2.777	72.211	0.591	1986	62597

Laihunite 3M superstructure	$(Fe_{1.568}Mg_{.027})(SiO_4)$	P21/B11	80	4.372	349.754	0.692	1983	64803
Laitakarite	Bi_4Se_3	R3-MH	7	1.950	13.651	0.695	1968	20319
Lakebogaite	$(Ca_{0.87}Na_{0.13})NaFe(Fe_{0.91}Al_{0.09})H(U_{0.944}O_2)_2(PO_4)_4(OH)_2(H_2O)_{7.8}$	C1C1	70	5.129	359.050	0.837	2008	159932
Lalondeite	$(Na_{5.92}Ca_{1.04})Ca_3(Si_{16}O_{38})(F(OH))(H_2O)_3$	P-1	67	5.081	340.428	0.838	2009	163139
Lammerite	$Cu_3(AsO_4)_2$	P121/A1	26	2.777	72.211	0.591	1986	201733
Lamprophyllite 2M	$(Sr_{1.18}Na_{0.66}Ca_{0.12})Na(Na_{1.30}Mn_{0.36}Fe_{0.22}Mg_{0.12})Ti_3O_2(Si_2O_7)_2(OH)_2$	C12/M1	30	3.440	103.207	0.701	2003	98204
Lamprophyllite 2O	$(Sr_{1.18}Na_{0.66}Ca_{0.12})Na(Na_{1.30}Mn_{0.36}Fe_{0.22}Mg_{0.12})Ti_3O_2(Si_2O_7)_2(OH)_2$	PNMN	60	3.440	206.413	0.582	2003	98203
Lanarkite	$Pb_2O(SO_4)$	C12/M1	16	2.750	44.000	0.688	1970	14246
Landauite	$(Zn_{.2}Mn_{.08}Fe_{.24}Ti_{0.44})_2Ti_2O_7$	A12/A1	22	2.550	56.107	0.572	1970	28519
Landauite	$(Na_{0.7}K_{0.15}Pb_{0.15})(MnZn_2(Ti_{3.84}Fe_{2.16})Ti_{12})O_{38}$	R3-R	60	3.514	210.825	0.595	1978	200416
Landesite	$FeMn_2(OH)(H_2O)_2(PO_4)_2$	PBNA	64	3.125	200.000	0.521	1980	31146
Langanite	$La_3((Ga_{5.4}Ta_{0.6})O_{14})$	P321	23	2.588	59.513	0.572	2005	153588
Langasite	$La_3(Ga_5SiO_{14})$	P321	23	2.588	59.513	0.572	2000	92593
Langbanite	$(ZrTi)O_4$	P31M	12	0.918	11.020	0.256	1991	69619
Langbanite	$(Mn_{3.617}Ca_{0.263}Mg_{0.047}Fe_{0.073})(Mn_{7.043}Fe_{1.957})SbO_{16}(SiO_4)_2$	C12/M1	120	5.207	624.827	0.754	1991	71343
Langbanite (subcell)	$(Mn_{10.4}Ca_{0.6}Fe_2)SbO_{16}(SiO_4)_2$	P3-M1	40	3.333	133.328	0.626	1991	40646
Langbeinite	$K_2Mg_2(SO_4)_3$	P213	76	2.997	227.745	0.480	1986	40986
Langisite	$(Co_{0.9}Ni_{0.1})As$	PNMA	8	1.000	8.000	0.333	1984	60406
Langite	$Cu_4(OH)_6(SO_4)(H_2O)_2$	P1C1	54	4.755	256.764	0.826	1984	30724

Lansfordite	$CoCr_2O_4$	P21/C	14	1.379	19.303	0.362	1990	69503
Lanthanite-(Ce)	$(LaCe)(CO_3)_3(H_2O)_8$	PBNB	136	4.205	571.895	0.593	1977	100027
Lapeyreite	$CuO_{0.333}((AsO_3)(OH))_{0.667}(H_2O)_{0.25}$	C12/M1	21	3.440	72.239	0.783	2010	166082
Laphamite	As_2Se_3	P21/C	20	2.322	46.439	0.537	1973	2600
Larderellite	$K_2Mn(SO_4)_2(H_2O)_4$	P21/C	50	4.124	206.193	0.731	1969	34690
Larisaite	$Na_{0.6}K_{0.15}(H_3O)_{1.25}((UO_2)_3(SeO_3)_2O_2)(H_2O)_{3.75}$	P11M	51	4.927	251.294	0.869	2004	54884
Larnite	$Ca_2(SiO_4)$	P121/N1	28	2.807	78.606	0.584	1977	963
Larsenite	$PbZn(SiO_4)$	PNA21	56	3.807	213.212	0.656	1967	26840
Lasalite	$Na_2Mg_2(V_{10}O_{28})(H_2O)_{20}$	C12/C1	172	5.426	933.318	0.731	2008	162087
Latiumite	$K_{0.85}Ca_3((Si_{2.15}Al_{2.85})O_{11})(SO_4)_{0.7}(CO_3)_{0.3}$	P1211	52	4.700	244.423	0.825	1973	10263
Latrappite	$Ca(NbO_3)$	PBNM	20	1.922	38.439	0.445	1998	85569
Laubmannite	$(Fe_8Cu_{0.085})(P_{0.94}As_{0.06}O_4)_5(OH)_9(H_2O)_2$	PBCM	224	4.879	1092.848	0.625	2004	151490
Laueite	$Fe_2Mn(PO_4)_2(OH)_2(H_2O)_8$	P-1	23	3.654	84.042	0.808	1965	23819
Laumontite	$Ca_{0.89}(Al_2Si_4O_{12})(H_2O)_{1.88}$	A11M	42	4.535	190.477	0.841	1971	16535
Laumontite	$CaAl_2Si_4O_{12}(H_2O)_{4.5}$	C12/M1	48	3.835	184.078	0.687	2004	172239
Laurelite	$PbF_{1.64}Cl_{.27}$	P6-	21	3.034	63.709	0.691	1996	82415
Laurelite	$Pb_7F_{12}Cl_2$	P63/M	28	2.449	68.567	0.509	2000	410677
Laurionite	Pb(OH)Cl	PCMN	16	2.000	32.000	0.500	1975	28035
Laurite	RuS_2	PA3-	12	0.918	11.020	0.256	1994	41996
Lautarite	$Ca(IO_3)_2$	P121/N1	36	3.170	114.117	0.613	1978	1391
Lautite	AsCuS	PNMA	12	1.585	19.020	0.442	2008	240925
Lavenite	$ZrFeNa_{1.5}Ca_{0.5}(Si_2O_7)OF$	P121/A1	60	3.907	234.413	0.661	1981	100722
Lavrentievite	$Hg_3S_2(Cl_{1.38}Br_{0.62})$	C12/M1	28	3.379	94.606	0.703	2006	156229

Lavrentievite	$Hg_3S_2(Cl_{1.55}Br_{0.45})$	PM3-N	224	3.353	751.025	0.429	2006	156230
Lawrencite	$FeCl_2$	R3-MH	3	0.918	2.755	0.579	1975	4059
Lawsonbauerite	$Mn_{6.21}Mg_{2.79}Zn_4(SO_4)_2(OH)_{22}(H_2O)_8$	P21/C	106	4.747	503.160	0.706	1982	31188
Lawsonite	$CaAl_2(Si_2O_7)(OH)_2(H_2O)$	CMCM	38	3.195	121.421	0.609	1995	80835
Lazarevicite	$Cu_3(AsS_4)$	P4-3M	8	1.406	11.245	0.469	1960	42516
Lazulite	$(Mg_{0.866}Fe_{0.134})Al_2(OH)_2(PO_4)_2$	P21/C	34	3.146	106.974	0.618	1983	31259
Lazurite	$Na_{6.34}Ca_{1.66}(Al_6Si_6O_{24})((SO_4)_{0.88}S_{1.26})$	P23	66	3.316	218.852	0.549	2002	95459
Lazurite	$Na_8(AlSiO_4)_6(SO_4)_{1.5}S_{1.05}$	P11A	116	5.858	679.526	0.854	2006	245207
Lazurite (deuterated)	$Na_{7.5}(Al_6Si_6O_{24})S_{4.5}(D_2O)_{.5}$	I4-3M	28	1.877	52.567	0.391	1988	63022
Lazurite 1C	$Na_{8.56}(Al_6Si_6O_{24})(SO_4)_{1.56}S_{0.44}$	P4-3N	54	2.217	119.705	0.385	1985	49759
Lazurite 4A	$Na_7Ca(Al_6Si_6O_{24})(SO_4)_{1.5}S_{0.6225}$	P1	209	7.707	1610.838	1.000	1997	85087
Lazurite 6O	$(Na_{6.51}Ca_{1.33}K_{0.113})(Si_{6.17}Al_{5.83}O_{24})(SO_{4.111})_{1.35}S_{0.31}(S_2)_{0.13}Cl_{0.12}$	PNAA	316	5.342	1687.995	0.643	1998	87510
Lead	Pb	IM3-M	1	0.000	0.000	Nan	1990	57462
Lead	Pb	FM3-M	1	0.000	0.000	Nan	1953	64808
Leadamalgam	$Hg_{0.3}Pb_{0.7}$	P4/MMM	2	1.000	2.000	1.000	1975	108544
Leadhillite	$Pb_4(SO_4)(CO_3)_2(OH)_2$	P121/A1	152	5.248	797.685	0.724	2005	171821
Leadhillite. heated	$Pb_4(SO_4)(CO_3)_2(OH)_2$	P3	57	4.582	261.151	0.785	2005	171822
Leakeite. potassic	$(K_{0.54}Na_{0.46})Na_2(Mg_{1.05}Mn_{0.95})(Fe_{1.52}Mg_{0.48})(Li_{0.82}Mn_{0.18})Si_8O_{22}(OH)_2$	C12/M1	43	3.798	163.329	0.700	2002	97844
Lecontite	$Na(NH_4)(SO_4)(H_2O)_2$	P212121	68	4.087	277.947	0.671	1994	77896
Lecoqite-(Y)	$Na_3(Y_{0.73}Dy_{0.27})(CO_3)_3(H_2O)_6$	P63	62	3.420	212.062	0.574	2010	167004
Legrandite	$Mn_{2.6}Fe_{0.4}Al_2(SiO_4)_3$	P21/C	80	1.595	127.637	0.252	1971	34838
Leifite	$Na_{6.2}K_{0.46}Be_2Al_{2.66}Si_{15.34}O_{39}F_2$	P3-M1	68	3.325	226.095	0.546	2010	168119

Leightonite	$K_2Ca_2Cu(SO_4)_4(H_2O)_2$	C12/C1	26	2.777	72.211	0.591	2002	94629
Leisingite	$(Cu_{1.83}Fe_{0.17})(Mg_{0.9}Zn_{0.1})(TeO_6)(H_2O)_6$	P3-1M	16	1.936	30.980	0.484	1997	76868
Leiteite	$Zn(As_2O_4)$	P21/C	28	2.807	78.606	0.584	1987	202249
Lemmleinite	$Na_{0.86}K_{1.75}(Ti_{0.7}Nb_{0.3})_2(Si_4O_{12})(O_{1.21}(OH)_{0.79})(H_2O)_{1.78}$	C12/M1	52	4.008	208.423	0.703	1996	83237
Lemoynite	$Na_{1.24}KCa_{0.96}Zr_{1.96}(Si_{10}O_{26})(H_2O)_{4.2}$	C12/C1	94	4.618	434.131	0.705	1976	41914
Lenaite	$AgFeS_2$	I4-2D	8	1.500	12.000	0.500	1958	56263
Lenaite	$AgFeS_2$	I4-2D	8	1.500	12.000	0.500	2006	156643
Leningradite	$PbCu_3(VO_4)_2Cl_2$	IBAM	32	2.625	84.000	0.525	2007	157294
Leogangite	$Cu_{10}(AsO_4)_4(SO_4)(OH)_6(H_2O)_8$	C12/C1	98	4.635	454.242	0.701	2004	151482
Leonhardite	$Ca_{3.16}K_{0.76}Na_{0.89}(Al_{7.63}Si_{15.18}O_{48})(H_2O)_{9.05}$	P12/A1	94	4.618	434.131	0.705	1997	83817
Leonite	$K_2Mg(SO_4)_2(H_2O)_4$	C12/M1	50	4.124	206.193	0.731	2001	92697
Leonite	$K_2Mg(SO_4)_2(H_2O)_4$	I12/C1	100	4.724	472.386	0.711	2001	92698
Leonite	$K_2Mg(SO_4)_2(H_2O)_4$	P121/A1	100	4.684	468.386	0.705	2001	92699
Lepidocrocite	$FeO(OH)$	CMCM	10	1.922	19.219	0.579	1982	108876
Lepidolite 1M	$K(Al_{1.13}Li_{1.48}Mg_{0.39})(Al_{0.57}Si_{3.43}O_{10})(F_{1.62}(OH)_{0.38})$	C121	20	3.522	70.439	0.815	1983	38411
Lepidolite 2M1	$KLi_{0.92}(Al_{00.55}Li_{00.35})_2(Si_4O_{10})F_2$	C12/C1	40	3.422	136.877	0.643	1981	34184
Lepidolite 2M2	$(NH_4)(B_5O_7(OH)_2)(H_2O)$	C12/C1	80	4.322	345.754	0.684	1973	34704
Lepidolite 3M2	$K_{0.9}(Al_{1.3}Li_{1.1}Mn_{0.36})(Si_{3.375}Al_{0.625})O_{10}F_2$	C121	60	4.974	298.413	0.842	1987	40894
Lepidolite 3T	$(K_2(Al_{2.32}Mn_{0.11}Li_{3.46})(AlSi_7O_{20})F_3(OH))_{1.5}$	P3112	60	3.522	211.316	0.596	1978	100634
Lepidolite 6M	$KMg_3(AlSi_3O_{10})(OH)F$	C1C1	122	5.931	723.550	0.856	1939	24166
Lepkhenelmite-Zn	$(Ba_{0.92}K_{0.54}Ca_{0.26}Na_{0.24}Sr_{0.22})(Zn_{0.58}Mn_{0.15}Fe_{0.04}Mg_{0.01})(Ti_{2.97}Nb_{1.02})((Si_{7.89}Al_{0.11})O_{24})(O_{2.01}(OH)_{1.99})(H_2O)_{7.39}$	C1M1	51	4.849	247.294	0.855	2004	152181

Lessingite-(Ce)	$La_6Ca_{3.5}(SiO_4)_6F(H_2O)$	P63	42	3.034	127.419	0.563	1990	33859
Letovicite	$(NH_4)_3H(SO_4)_2$	R3-MH	36	3.092	111.323	0.598	2002	51914
Leucite	$K(AlSi_2O_6)$	I41/AZ	80	3.322	265.754	0.525	2008	161635
Leucite high	$K(AlSi_2O_6)$	IA3-D	80	1.295	103.637	0.205	1993	64806
Leucophane (Ce-bearing)	$(Ca_{0.925}Ce_{0.075})(Na_{0.94}Ca_{0.06})(BeSi_2O_6)(O_{0.135}F_{0.865})$	P1	48	5.585	268.078	1.000	1992	72365
Leucophanite	$CaNaBe(Si_2O_6)F$	P212121	48	3.585	172.078	0.642	1989	203068
Leucophoenicite	$(Mn_{0.94}Zn_{0.03}Mg_{0.03})_5(Mn_{0.64}Ca_{0.32}Mg_{0.02}Zn_{0.02})_2Si_3O_{12}(OH)_2$	P121/A1	58	3.892	225.763	0.664	2002	94589
Leucophosphite	$K(Fe_2(PO_4)_2(OH)(H_2O))(H_2O)$	P121/N1	84	4.392	368.955	0.687	1997	84951
Leucosphenite	$Na_4BaTi_2(B_2Si_{10}O_{30})$	C12/M1	49	3.900	191.121	0.695	1981	20149
Levinsonite-(Y)	$(Y_{0.33}Nd_{0.23}Ce_{0.44})Al(SO_4)_2(C_2O_4)(H_2O)_{12}$	P12/N1	108	4.829	521.528	0.715	2001	96640
Levyne	$Ca_{2.76}Na_{0.68}K_{0.21}(Al_{6.48}Si_{11.52}O_{35.97})(H_2O)_{15.27}$	R3-MH	84	3.635	305.328	0.569	1975	4361
Lewisite	$((Ca_{1.04}Mn_{0.07}Na_{0.01})Sb_{0.65})(Sb_{0.99}Ti_{0.76}Fe_{0.19}Al_{0.06})O_6(OH)_{0.91}$	F4-3M	22	2.322	51.088	0.521	1998	51210
Lewisite	$((Ca_{1.04}Mn_{0.07}Na_{0.01})Sb_{0.65})(Sb_{0.99}Ti_{0.76}Fe_{0.19}Al_{0.06})O_6(OH)_{0.91}$	F23	22	2.322	51.088	0.521	1998	51211
Lewisite	$(Ca_{0.91}Sb_{0.27}Fe_{0.19}Al_{0.10}Na_{0.10}Mn_{0.06})(Sb_{1.28}Ti_{0.72})O_6(OH)$	FD3-MZ	22	1.686	37.088	0.378	2000	90171
Liandratite	UTa_2O_8	P3-1M	11	1.686	18.544	0.487	1960	27779
Liberite	$Li_2Be(SiO_4)$	P1N1	16	3.000	48.000	0.750	1966	28307
Libethenite	$Cu_2(PO_4)(OH)$	PNNM	36	2.948	106.117	0.570	2007	249609
Liddicoatite	$(Na_{0.412}Ca_{0.483})(Al_{1.207}Mn_{0.609}Li_{1.228})(Al_{5.88}Si_{5.88}O_{18})(BO_3)_3(OH)_{3.6}$	R3MH	50	3.522	176.115	0.624	1999	87954
Liebauite	$Ca_3Cu_5Si_9O_{26}$	C12/C1	86	4.496	386.659	0.700	1992	36566

Liebenbergite	$Ni_2(SiO_4)$	PBNM	28	2.522	70.606	0.525	1990	64952
Liebigite	$Ca_2(UO_2)(CO_3)_3(H_2O)_{11}$	BBA2	112	4.843	542.424	0.711	1982	31270
Likasite	$Cu_3(OH)_5(NO_3)(H_2O)_2$	PCMN	56	3.522	197.212	0.606	1986	30997
Lillianite	$Pb_3Bi_2S_6$	BBMM	22	2.732	60.107	0.613	1972	2737
Lillianite	$(Pb_3Bi_2)S_6$	PBNM	44	3.459	152.215	0.634	2008	246066
Lime	CaO	FM3-M	2	1.000	2.000	1.000	2009	163628
Linarite	$PbCu(SO_4)(OH)_2$	P121/M1	20	3.122	62.439	0.722	2009	164673
Lindackerite	$Cu_{0.96}Cu_4((AsO_4)_{1.92}(AsO_3(OH))_{2.08})(H_2O)_{9.22}$	P-1	43	4.450	191.329	0.820	2003	55432
Lindgrenite	$Cu_3((OH)_{0.18}(OD)_{1.82})(MoO_4)_2$	P121/N1	34	3.146	106.974	0.618	2006	165288
Lindqvistite	$Pb_{1.82}Mg_{0.98}Fe_{16.2}O_{27}$	P63/MMC	96	3.704	355.549	0.562	1993	74013
Lindsleyite	$BaMn_3Ti_{18}O_{38}$	R3-H	60	3.514	210.825	0.595	1995	81584
Lindstroemite	$Cu_{2.66}Pb_{2.4}Bi_{5.6}S_{12}$	PMCN	120	4.907	588.827	0.710	2008	160418
Linnaeite	Co_3S_4	FD3-MZ	14	1.379	19.303	0.362	1968	24212
Lintisite	$Na_3LiTi_2(SiO_3)_4O_2(H_2O)_2$	C12/C1	60	3.974	238.413	0.673	1990	33739
Liottite	$(Na_{9.96}K_{6.04}Ca_2)Ca_6(Si_{18}Al_{18}O_{72})(SO_4)_5Cl_{3.5}F_{0.5}$	P6-	162	5.124	830.066	0.698	1996	82468
Lipscombite	$Fe_7(PO_4)_4O_{2.7}(OH)_{1.3}$	C12/C1	72	4.281	308.235	0.694	2006	250322
Liroconite	$(Mg_{.84}Fe_{.16})_2Al_{12}(Al_{.79}Fe_{.21})_2(Si_4B_2(B_{.77}Al_{.23})_2O_{37})$	I12/A1	61	5.013	305.775	0.845	1991	69604
Lisetite	$CaNa_2(Al_4Si_4O_{16})$	PBC21	108	4.755	513.528	0.704	1986	202112
Litharge	PbO	P4/NMMZ	4	1.000	4.000	0.500	1961	15466
Litharge	PbO	PBMA	64	3.125	200.000	0.521	2003	99777
Lithia	Li_2O	FM3-M	3	0.918	2.755	0.579	1934	642219
Lithidionite	$NaK(CuSi_4O_{10})$	P-1	34	4.087	138.974	0.803	1975	4362
Lithioferrite (Mg-doped)	$(Fe_{0.829}Mg_{0.171})(Fe_{1.586}Li_{0.414})O_4$	FD3-MZ	14	1.379	19.303	0.362	2001	94314

Lithiophilite	$LiMn(PO_4)$	PMNB	28	2.522	70.606	0.525	1960	25834
Lithiophorite	$Mn(Al_{0.65}Li_{0.33})O_2(OH)_2$	R3-MH	8	2.250	18.000	0.750	1994	75283
Lithiophosphate high	$Li_3(PO_4)$	PCMN	32	2.500	80.000	0.500	1978	20208
Lithiophosphate low	$Li_3(PO_4)$	PMN21	16	2.500	40.000	0.625	1967	10257
Lithiowodginite	$Li(Ta_3O_8)$	C12/C1	24	2.752	66.039	0.600	1977	1318
Lithium-ultramarine	$Na_4Li_4Al_6Si_6S_{2.05}O_{24}(H_2O)_{.85}$	P4-3N	46	1.892	87.025	0.343	1936	27524
Lithosite	$K_3(HAl_2Si_4O_{13})$	P121/A1	88	4.459	392.430	0.690	1986	56825
Litidionite	$KNaCu(Si_4O_{10})$	P-1	34	4.087	138.974	0.803	2009	260174
Litvinskite	$Na_{0.78}(Na_{0.78}(H_2O)_{0.22})_2(Zr_{0.96}Hf_{0.02})(Na_{0.19}Mn_{0.16})(Si_6O_{12})O_{0.76}(OH)_{5.24}$	C1M1	29	4.168	120.881	0.858	2001	57042
Liveingite	$Pb_{18.5}As_{25.25}S_{56}$	P1211	202	6.658	1344.959	0.869	1970	14249
Liversidgeite	$Zn_6(PO_4)_4(H_2O)_7$	P-1	84	5.392	452.955	0.844	2010	166957
Livingstonite	$HgSb_4S_8$	A12/A1	52	3.777	196.423	0.663	2010	174377
Lizardite 1M	$Mg_3(Si_2O_5(OH)_4)$	C1M1	14	3.093	43.303	0.812	1995	81101
Lizardite 1T	$Mg_3(Si_2O_5)(OH)_4$	P31M	18	2.891	52.039	0.693	1982	17046
Lizardite 2H1	$Mg_3(Si_2O_5(OH)_4)$	P63CM	36	2.891	104.078	0.559	1998	76919
Lizardite 2H2 (Al.Fe-bearing)	$(Mg_{2.35}Fe_{0.13}Al_{0.52})((Si_{1.41}Al_{0.59})O_5)(OH)_4$	P63	36	3.113	112.078	0.602	1997	83802
Lizardite 9T	$Mg_2Fe_{.1}Al_{1.27}Si_{1.4}O_{4.6}(OH)_{4.4}$	P31M	14	2.503	35.038	0.657	1968	24427
Lodochnikovite	$Ca_2Mg_2Fe_2(Al_{14}O_{31}(OH))(Al_2O)(Al)(Al(OH))$	P1C1	232	6.858	1591.052	0.873	2010	260885
Loellingite	$FeAs_2$	PNNM	6	0.918	5.510	0.355	2001	94062
Loeweite	$Na_{12}Mg_7(SO_4)_{13}(H_2O)_{15}$	R3-R	100	4.142	414.229	0.623	1970	15209
Lomonosovite	$(Na_{9.5}Ca_{0.11}Mn_{0.16})(Ti_{2.83}Mn_{0.27}Nb_{0.51}Fe_{0.16}Zr_{0.11}Mg_{0.1}{}_1Ta_{0.01})(Si_2O_7)_2(PO_4)_2(O_{3.5}F_{0.5})$	P-1	46	4.524	208.084	0.819	2008	166769

Lomonosovite beta	$Na_{4.9}Ti_4(Si_2O_7)_2(PO_4)_{1.8}(OH)_{4.1}$	P-1	90	5.492	494.267	0.846	1986	62321
Londonite	$Cs_{0.55}K_{0.33}(Al_4(B_{10.80}Be_{1.20})Be_{3.64}O_{27}(OH))$	P4-3M	49	2.491	122.062	0.444	2010	169968
Lonsdaleite	C	P63/MMC	4	0.000	0.000	0.000	1992	66465
Loparite	$(Na_{0.475}Ca_{0.118}Ce_{0.19}La_{0.08}Nd_{0.04}Th_{0.01}Sr_{0.05}Pr_{0.01}Eu_{0.0075}Sm_{0.01})(Ti_{0.865}Nb_{0.135})O_3$	PN3-MZ	40	1.733	69.328	0.326	2000	91528
Loparite-(Ce)	$(Na_{0.632}Ce_{0.368})((Ti_{0.912}Nb_{0.088})O_3)$	I4/MCM	10	1.922	19.219	0.579	2000	89851
Loparite-(Ce)	$(Na_{0.536}Ce_{0.209}Sr_{0.255})((Ti_{0.944}Nb_{0.056})O_3)$	PBNM	20	1.922	38.439	0.445	2000	89852
Lopezite	$K_2(Cr_2O_7)$	P-1	44	4.459	196.215	0.817	1973	10371
Lorandite	$TlAsS_2$	P121/A1	32	3.000	96.000	0.600	1995	81094
Lorenzenite	$Na_2Ti_2O_3(SiO_3)_2$	PNCA	60	2.974	178.413	0.503	1969	20124
Loseyite	$Mn_{3.68}Zn_{2.54}Mg_{0.77}(CO_3)_2(OH)_{10}$	A12/A1	70	4.158	291.050	0.678	1981	15553
Lovdarite	$K_4Na_{12}(Be_8Si_{28}O_{72})(H_2O)_{18}$	PMA2	142	5.220	741.264	0.730	1990	69408
Loveringite. manganous	$Ca_{1.5}Mn_{1.8}Ti_{18.7}O_{38}$	R3-H	60	3.514	210.825	0.595	1998	76984
Lovozerite	$Na_{2.2}K_{0.09}Ca_{0.35}Na_{0.2}Mn_{0.08}Zr_{0.8}Fe_{0.14}Ti_{0.03}Hf_{0.03}(Si_6O_{12}(OH)_3((OH)_{0.6}O_{0.4})_3)(H_2O)_{0.9}$	R3H	32	3.514	112.451	0.703	2001	51633
Lovozerite	$Na_{2.5}Ca_{.35}Mn_{.1}Fe_{.15}Zr_{.85}(Si_6O_{12})(OH)_{4.67}O_{1.33}(H_2O)$	R3-MH	33	2.816	92.916	0.558	1993	107716
Luberoite	Pt_5Se_4	P21/C	18	2.281	41.059	0.547	1977	87926
Lucasite-(Ce)	$CeTi_2O_5(OH)$	I12/A1	18	2.281	41.059	0.547	1987	202362
Ludjibaite	$Cu_5(PO_4)_2(OH)_4$	P-1	19	3.406	64.711	0.802	1981	100744
Ludlamite. ferromagnetic	$Fe_3(PO_4)_2(H_2O)_4$	P121/A1	50	3.684	184.193	0.653	1966	34255
Ludlockite	$PbFe_4(As_5O_{11})_2$	A1-	74	5.209	385.500	0.839	1996	82486
Ludwigite	$(Mg_{1.93}Fe_{0.967}Al_{0.093})O_2(BO_3)$	PBAM	36	3.281	118.117	0.635	1999	88937
Lueneburgite	$Mn_{13}Sb(Si_2O_{24})$	P-1	120	4.891	586.896	0.708	1991	69610
Lueshite high	$Na(NbO_3)$	PM3-M	5	1.371	6.855	0.590	1961	28590

Lueshite intermediate	$Na(NbO_3)$	PMMM	5	2.322	11.610	1.000	1961	28578
Lueshite intermediate	$Na(NbO_3)$	P4MM	5	1.922	9.610	0.828	1961	28583
Lueshite intermediate	$Na(NbO_3)$	P4/MMM	5	1.922	9.610	0.828	1961	28584
Lueshite low	$Na(NbO_3)$	R3CR	40	2.895	115.818	0.544	1976	9645
Lueshite low	$Na(NbO_3)$	P12/M1	5	2.322	11.610	1.000	1961	28564
Lukechangite-(Ce)	$Na_3Ce_2(CO_3)_4F$	P63/MMC	44	2.686	118.176	0.492	1997	83767
Lulzacite	$(Sr_{0.96}Ba_{0.04})_2Fe(Fe_{0.63}Mg_{0.37})_2Al_4(P_{0.98}V_{0.02}O_4)_4(OH)_{10}$	P-1	43	4.496	193.329	0.829	2000	89901
Luobusaite	$Fe_{0.96}Si_2$	CMCA	24	1.918	46.039	0.418	2007	162436
Luzonite. antimonian	$Cu_3(As_{.685}Sb_{.315})S_4$	I4-2M	8	1.750	14.000	0.583	1967	26838
Lyonsite	$Cu_{3.18}Fe_4(VO_4)_6$	PMCN	76	3.511	266.842	0.562	1987	202361
Macdonaldite	$BaCa_4(OH)_2(Si_{16}O_{36})(H_2O)_{10.4}$	CMCM	142	4.488	637.264	0.628	1968	23566
Macedonite	$Pb(TiO_3)$	P4MM	5	1.922	9.610	0.828	2000	90693
Macfallite	$Ca_2(Mn_{2.52}Al_{0.36}Mg_{0.09}Cu_{0.03})(SiO_4)(Si_2O_7(OH))(OH)_2$	P121/M1	46	4.263	196.084	0.772	2008	161986
Machatschkiite	$Ca_6(AsO_4)(AsO_3(OH))_3(PO_4)(H_2O)_{15}$	R3CH	92	4.076	375.031	0.625	1982	31267
Mackayite	$Fe(OH)Te_2O_5$	I41/ACDZ	72	2.503	180.235	0.406	1977	100139
Mackinawite	FeS	P4/NMMS	4	1.000	4.000	0.500	1995	81087
Macphersonite	$Pb_4(SO_4)(CO_3)_2(OH)_2$	PCAB	152	4.248	645.685	0.586	1998	54153
Maekinenite	NiSe	R3MH	6	1.000	6.000	0.387	1960	42596
Magadiite	$Na(SiO_2)_6(OH)$	B112/M	38	3.722	141.421	0.709	1988	56290
Maghemite C	$Fe_{21.34}O_{26.67}$	P4332	56	2.074	116.153	0.357	2006	249048
Maghemite Q	$Fe_{1.966}O_{2.963}$	P43212	160	4.372	699.508	0.597	1998	87121

Magnesio-arfvedsonite	$(Na_{0.48}K_{0.12})(Li_{0.05}Ca_{0.17}Na_{1.78})(Mg_{1.87}Mn_{0.13})(Al_{0.10}Fe_{1.28}Mg_{0.58}Ti_{0.04})(Mg_{0.70}Li_{0.30})(Si_8O_{22}((OH)_{1.53}F_{0.47}))$	C12/M1	42	3.773	158.477	0.700	2008	160429
Magnesiocarpholite	$K_{0.004}(Mg_{1.3}Fe_{0.7})Al_{3.96}Si_4O_{11.84}(OH)_{7.92}F_{0.24}$	CCCAZ	94	3.725	350.131	0.568	2001	158096
Magnesiochloritoid	$(Fe_{0.86}Mg_{1.14})(Fe_{0.06}Al_{0.94})(Al_3Si_2O_{10})(OH)_4$	C12/C1	44	3.550	156.215	0.650	2000	90033
Magnesiochloritoid A	$(Fe_{1.02}Mg_{0.98})(Al_{0.93}Fe_{0.07})(Al_3Si_2O_{10}(OH)_4)$	C1-	22	3.641	80.107	0.817	2000	90032
Magnesiochromite	$MgCr_2O_4$	FD3-MZ	14	1.379	19.303	0.362	1994	75623
Magnesiocopiapite	$MgFe_4(SO_4)_6(OH)_2(H_2O)_{20}$	P-1	99	5.639	558.306	0.851	2006	156228
Magnesiocoulsonite	MgV_2O_4	FD3-MS	14	1.379	19.303	0.362	1995	56283
Magnesiocummingtonite	$(Fe_{3.17}Mg_{3.83})(Si_8O_{22})(OH)_2$	C12/M1	41	3.699	151.660	0.690	1993	41295
Magnesiodumortierite	$(Mg_{0.49}Ti_{0.19}Fe_{0.01})Al_{3.8}(Al_{1.42}Mg_{0.50})((Si_{2.88}P_{0.02})O_{12.04})(BO_3)(OH)_{2.96}$	PMCN	120	4.174	500.827	0.604	1995	79840
Magnesioferrikatophorite	$Na_{1.77}K_{0.06}Ca_{0.82}Mg_{2.4}Fe_{1.91}Mn_{0.01}Ti_{0.17}(Si_{7.16}Al_{0.84}O_{22})(OH)_2$	C12/M1	36	3.559	128.117	0.688	2003	250007
Magnesioferrite	$MgFe_2O_4$	FD3-MZ	14	1.379	19.303	0.362	1992	40676
Magnesiohastingsite	$Ti_{0.315}Fe_{1.534}Mg_{3.136}Ca_{1.90}Na_{0.73}K_{0.35}Al_{.02}(Si_{5.94}Al_{2.06})O_{22}(OH)_2$	C12/M1	40	3.672	146.877	0.690	1981	100674
Magnesiohornblende	$Na_{.46}Ca_{1.7}Mg_{3.44}Fe_{1.72}Al_{1.1}Si_{6.9}O_{23}(OH)$	C12/M1	40	3.672	146.877	0.690	1989	203156
Magnesiopascoite	$Ca_2Mg(V_{10}O_{28})(H_2O)_{16}$	C12/M1	65	4.422	287.454	0.734	2008	161274
Magnesioriebeckite	$(Na_{0.07}K_{0.11})(Ca_{0.12}Na_{1.88})(Mg_{1.98}Mn_{0.02})(Al_{0.11}Fe_{1.69}Mg_{0.2})Mg(Si_8O_{22}(OH)_{1.89}F_{0.11})$	C12/M1	43	3.798	163.329	0.700	2008	160422
Magnesiosadanagaite	$(K_{0.17}Na_{0.82})(Ca_{1.95}Na_{0.05})(Mg_{3.35}Fe_{0.22}Al_{1.20}Ti_{0.16}Cr_{0.07})((Si_{5.5}Al_{2.5})O_{22})((OH)_{1.58}F_{0.42})$	C12/M1	41	3.748	153.660	0.700	2008	160001
Magnesiostaurolite	$(Fe_{0.16}Mg_{0.72})(Mg_{1.86}Li_{0.94}Zn_{0.02})(Al_{15.96}Ti_{0.04})(Al_{1.58}Mg_{0.45})((Si_{7.96}Al_{0.04})O_{40})((OH)_{3.98}O_{4.02})$	C12/M1	40	3.672	146.877	0.690	2003	97691
Magnesiotaaffeite-2N'2S	$Mg_3BeAl_8O_{16}$	P63MC	56	3.788	212.153	0.652	1983	31256

Magnesiotaaffeite-6N'3S 9R	$Be(Mg_{1.63}Fe_{0.37})Al_6O_{12}$	R3-MH	42	3.469	145.683	0.643	1983	31257
Magnesiotaramite	$Na(Na_{0.94}Ca_{1.06})(Mg_{2.93}Fe_{0.91}Al_{1.12}Ti_{0.04})((Si_{6.24}Al_{1.76})O_{22})(OH)_2$	C12/M1	43	3.798	163.329	0.700	1996	64884
Magnesite	$Mg(CO_3)$	R3-CH	10	1.371	13.710	0.413	1973	10264
Magnesite	$Mg(CO_3)$	C2221	10	1.922	19.219	0.579	2006	161821
Magnesiumastrophyllite	$Fe_{3.72}K_{1.96}Na_{2.06}Mg_{2.28}(Ti_2Si_8O_{28})(H_2O)_2$	A12/M1	54	4.051	218.764	0.704	1998	56848
Magnesiumastrophyllite	$Fe_{3.475}K_{1.963}Na_{2.06}Mg_{3.028}(Ti_2Si_8O_{28})(H_2O)_2$	A121	54	4.940	266.764	0.858	1998	280456
Magnetite	Fe_3O_4	FD3-MZ	14	1.379	19.303	0.362	2008	159959
Magnetite low	$Na_2LiFeSi_6O_{15}$	PMC21	100	3.924	392.386	0.591	1982	34950
Magnetoplumbite (Mn.Zn-bearing)	$PbAlFe_6Zn_2Mn_{2.5}Ti_{0.5}O_{17.5}(OH)_{1.5}$	P63/MMC	64	3.147	201.432	0.525	1993	74481
Magnetoplumbite 5H	$PbFe_{12}O_{19}$	P63/MMC	74	3.188	235.912	0.513	1989	203076
Magniotriplite	$(Mg_{0.89}Fe_{0.88}Mn_{0.23})(PO_4)F$	I12/A1	36	3.170	114.117	0.613	1981	41689
Magnolite	Hg_2TeO_3	PBM2	12	1.918	23.020	0.535	1989	203064
Magnussonite	$Mn_{7.935}Mg_{0.555}Cu_{0.510}(As_6Mn_{0.95}O_{18})Cl_{0.80}(OH)_{0.20}$	IA3-D	296	3.100	917.529	0.378	1979	100494
Mahnertite	$(Na_{0.88}Ca_{0.12})Cu_{2.75}(AsO_4)_2Cl_{0.62}(H_2O)_{3.63}$	I4/MMM	81	3.328	269.528	0.525	2004	54891
Majakite	$Pd(Pd_{0.192}Ni_{0.808})As$	P6-2C	18	1.891	34.039	0.454	2000	91824
Majorite	$Mg_3Fe_2(SiO_4)_3$	IA3-D	80	1.595	127.637	0.252	1996	77435
Majorite (Cr-bearing)	$Mg_3(Mg_{0.34}Si_{0.34}Al_{0.18}Cr_{0.14})_2(SiO_4)_3$	I41/AZ	80	3.572	285.754	0.565	1999	87696
Makarochkinite	$Fe_{5.145}Mg_{0.225}Ti_{0.54}Nb_{0.07}Al_{0.48}Sn_{0.02}Ca_{1.77}Na_{0.19}Mn_{0.04}Si_{4.52}BeO_{20}$	P-1	68	5.117	347.947	0.841	2005	171804
Makatite	$Na_2Si_4O_8(OH)_2(H_2O)_4$	P21/C	80	4.372	349.754	0.692	1982	17057
Makovickyite	$Cu_{2.124}Ag_{1.36}Bi_{11.2}S_{18}$	C12/M1	16	3.125	50.000	0.781	2008	160420

Malachite	$Cu_2(OH)_2(CO_3)$	P121/A1	32	3.000	96.000	0.600	2010	260811
Malanite	$Cu(PtIr_{0.7}Co_{0.3})S_4$	FD3-MS	14	1.379	19.303	0.362	1997	56265
Malayaite	$CaSnO(SiO_4)$	A12/A1	16	2.500	40.000	0.625	1977	1042
Malayaite	$CaSnO(SiO_4)$	A1-	16	3.125	50.000	0.781	2003	96820
Maldonite	Au_2Bi	FD3-MS	6	0.918	5.510	0.355	1935	52284
Maleevite	$Ba(B_2Si_2O_8)$	PNMA	52	2.931	152.423	0.514	2004	98903
Malinkoite	$NaB(SiO_4)$	P63	126	4.468	562.942	0.640	2001	92822
Malladrite	$Na_2(SiF_6)$	P1	27	4.755	128.382	1.000	1986	40917
Malladrite	$Na_2(SiF_6)$	P321	27	2.605	70.343	0.548	1967	61274
Mammothite	$Pb_6Cu_4AlSbO_2(OH)_{16}Cl_4(SO_4)_2$	C12/M1	44	4.050	178.215	0.742	1985	30992
Manaksite	$KNaMn(Si_4O_{10})$	P-1	34	4.087	138.974	0.803	2009	260176
Manandonite 2H2	$(Al_{2.025}Li_{0.955})((Si_{1.015}Al_{0.425}B_{0.56})O_5)(OH)_4$	C1	36	5.170	186.117	1.000	1995	80120
Mandarinoite	$Fe_2(Se_3O_9)(H_2O)_6$	P21/C	124	4.954	614.320	0.712	1984	201805
Mangangordonite	$MnAl_2((PO_4)_2(OH)_2(H_2O)_6)(H_2O)_2$	P-1	41	4.431	181.660	0.827	1988	63248
Manganhumite. magnesian	$Mn_{4.90}Mg_{2.10}(SiO_4)_3(OH)_2$	PBNM	96	3.752	360.156	0.570	1978	200351
Manganiandrosite-(Ce)	$(Mn_{0.6}Ca_{0.4})((Ce_{0.46}La_{0.23}Nd_{0.12}Sm_{0.01})Sr_{0.07}Ca_{0.02})(Mn_{0.63}Fe_{0.23}Ti_{0.10}Mg_{0.04})Al(Mn_{0.96}Mn_{0.04})(Si_2O_7)(SiO_4)O(OH)$	P121/M1	42	4.107	172.477	0.762	2006	156789
Manganilvaite	$CaFe_{2.00}(Mn_{.56}Fe_{0.44})(Si_2O_7)O(OH)$	P121/A1	64	4.000	256.000	0.667	2005	171049
Manganipiemontite-(Sr)	$CaSrMn_{1.58}Al_{1.42}Si_3O_{12}(OH)$	P121/M1	44	4.187	184.215	0.767	2002	96015
Manganite	$MnO(OH)$	P21/C	16	2.000	32.000	0.500	1997	84949
Manganochromite	$Mn(Cr_2O_4)$	FD3-MS	14	1.379	19.303	0.362	1978	167425

Manganocummingtonite	$(Na_{0.3}K_{0.03})(Na_{0.87}Ca_{0.39}Mn_{0.57}Mg_{0.17})(Mg_{3.84}Fe_{0.72}Mn_{0.38}Li_{0.06})(Si_{7.88}Al_{0.12}O_{22}(F_{0.4}(OH)_{1.6}))$	C12/M1	42	3.773	158.477	0.700	1993	158017
Manganogrunerite	$Ca_{0.1}Mn_{1.9}Mg_{1.25}Fe_{3.75}((Si_{7.81}Fe_{0.19})O_{22}(OH)_2)$	C12/M1	41	3.699	151.660	0.690	2002	158538
Manganolangbeinite	$K_2Mn_2(SO_4)_3$	P213	76	2.997	227.745	0.480	1981	200897
Manganolotharmeyerite	$Ca(Mn_{0.59}Mg_{0.17})_2((AsO_4)_{0.76}(AsO_2(OH)_2)_{0.24})_2((OH)_{0.59}(H_2O)_{0.41})_2$	C12/M1	15	2.707	40.603	0.693	2002	96616
Manganoneptunite	$KNa_2LiFe_2Ti_2(SiO_3)_8$	C1C1	80	5.322	425.754	0.842	2007	162466
Manganonordite-(Ce)	$(Na_{2.949}Ca_{0.051})(Sr_{0.981}Ba_{0.019})(Ce_{0.52}La_{0.43}Nd_{0.05})(Mn_{0.42}Zn_{0.24}Mg_{0.1}Fe_{0.23})Si_6O_{17}$	PCCA	116	4.030	467.526	0.588	1999	88885
Manganophyllite 1M	$(K_{.86}Na_{.1})(Mg_{2.52}Mn_{.13}Al_{.13}Fe_{.17})(Al_{1.2}Si_{2.8})O_{10}F_{.1}(OH)_{1.9}$	C12/M1	22	3.005	66.107	0.674	1986	64969
Manganosite	MnO	FM3-M	2	1.000	2.000	1.000	1979	9864
Manganostibite	Mn_7SbAsO_{12}	IBMM	42	3.345	140.477	0.620	1970	15181
Manganovesuvianite	$Ca_{19}Mn_{2.72}Al_{10.28}Si_{18}O_{69}(OH)_9$	P4/NZ	256	5.141	1316.000	0.643	2002	96014
Mannardite	$Ba_{1.12}(Ti_8O_{16})$	I4	13	1.854	24.106	0.501	1992	39635
Mannardite	$Ba_{1.034}Ti_{5.968}(V_{1.76}Cr_{0.272})O_{16}(H_2O)_{0.966}$	I41/AZ	52	2.854	148.423	0.501	1986	201926
Mansfieldite. synthetic	$AlAsO_4(H_2O)_2$	PBCA	96	3.585	344.156	0.544	2000	170740
Mapimite	$Zn_2Fe_3(AsO_4)_3(OH)_4(H_2O)_{10}$	C1M1	34	4.440	150.974	0.873	1981	26554
Marcasite	FeS_2	PNNM	6	0.918	5.510	0.355	2007	109374
Margaritasite	$Cs_2(UO_2)_2(VO_4)_2$	P121/A1	36	3.170	114.117	0.613	1965	15839
Margarite 2M1	$(Ca_{0.88}Na_{0.12})Al_2(Si_{2.12}Al_{1.88}O_{10})(OH)_2$	C1C1	38	4.248	161.421	0.809	1978	100608
Margarosanite	$PbCa_2(Si_3O_9)$	P-1	30	3.907	117.207	0.796	1969	18098
Marialite	$Na_4(Al_3Si_9O_{24})Cl$	I4/M	41	2.821	115.660	0.527	1999	88874
Marialite	$(Ca_{1.22}Na_{2.78})(Si_{8.44}Al_{3.56}O_{24})(Cl_{0.759}(CO_3)_{0.241})$	P42/NZ	90	3.536	318.267	0.545	2008	162515

Marianoite	$Na_2Ca_4(Nb_{0.52}Zr_{0.48})_2(Si_2O_7)_2(O_3F)$	P1211	60	4.907	294.413	0.831	2008	161988
Maricite	$NaFe(PO_4)$	PNMA	28	2.522	70.606	0.525	1998	85671
Maricopaite	$Pb_{7.49}Ca_{2.31}(Al_{11.6}Si_{36.4}O_{100})(H_2O)_{19}$	CM2M	96	5.085	488.156	0.772	1994	75278
Marinellite	$(Na_{31.24}K_{10.74}Ca_{6.03})(Si_6Al_6O_{24})_6(SO_4)_8Cl_2(H_2O)_6$	P31C	310	5.865	1818.149	0.709	2003	55429
Markcooperite	$Pb_2(U_{0.75}Te_{0.25}O_2)(TeO_6)$	P21/C	24	2.752	66.039	0.600	2010	168638
Marokite	$CaMn_2O_4$	PBCA	56	2.807	157.212	0.483	2003	96244
Marrite	$PbAg(AsS_3)$	P121/A1	24	2.585	62.039	0.564	1967	26835
Marrucciite	$Hg_3Pb_{16}Sb_{18}S_{46}$	C12/M1	83	5.387	447.128	0.845	2007	240916
Marshite	CuI	F4-3M	2	1.000	2.000	1.000	1971	9098
Marthozite	$Cu((UO_2)_3(SeO_3)_2O_2)(H_2O)_8$	PBN21	112	4.807	538.424	0.706	2001	95289
Martinite	$(Na_{9.34}Ca_{0.58})Ca_4((Si_{13.16}B_{0.84})B_2O_{38})(OH)_2F_2(H_2O)_4$	P-1	77	5.280	406.543	0.843	2007	158484
Martyite	$(Zn_{2.64}Co_{0.15})(V_2O_7)(OH)_2(H_2O)_2$	P3-M1	22	2.561	56.333	0.574	2008	161273
Mascagnite	$(NH_4)_2(SO_4)$	PNAM	28	2.522	70.606	0.525	1981	200905
Mascagnite low	$(NH_4)_2(SO_4)$	PNA21	88	4.459	392.430	0.690	1981	200900
Maslovite	$Pt_{.73}Pd_{.27}Bi_{1.3}Te_{.63}Sb_{.07}$	PA3-	12	0.918	11.020	0.256	1989	41399
Massicot	PbO	PBCM	8	1.000	8.000	0.333	1990	40180
Masutomolite 1M	$K_2(Li_{2.54}MnAl_{1.96}Fe_{0.24})(Si_{6.68}Al_{1.32}O_{20})(F_{3.16}O_{0.84}H_{1.08})$	C121	20	3.522	70.439	0.815	1986	41247
Masuyite	$Pb((UO_2)_3O_3(OH)_2)(H_2O)_3$	P1N1	38	4.248	161.421	0.809	1999	87743
Mathiasite	$(K_{.351}Ba_{.388}Ca_{.13})(Zr_{.682}Mg_{.318})(Mg_{1.499}Fe_{.501})(Ti_{.2748}Cr_{3.807}Fe_{1.9182})Ti_{12}O_{38}$	R3-H	60	3.514	210.825	0.595	1988	68659
Matildite	$AgBiS_2$	P3-M1	12	2.752	33.020	0.768	1959	44340
Matioliite	$Na(Mg_{0.9}Fe_{0.1})Al_5(PO_4)_4(OH)_6(H_2O)_2$	C12/C1	90	4.559	410.267	0.702	2006	156174
Matlockite	PbFCl	P4/NMMZ	6	1.585	9.510	0.613	2004	155010

Matsubaraite	$Sr_4Ti_5(Si_2O_7)_2O_8$	C12/M1	35	3.815	133.525	0.744	2002	98772
Mattagamite	$CoTe_2$	PNN2	6	0.918	5.510	0.355	1970	42728
Matteuccite	$Na(HSO_4)(H_2O)$	C1C1	20	3.322	66.439	0.769	1975	28259
Mattheddleite	$Pb_5(SiO_4)_{1.5}(SO_4)_{1.5}(Cl_{0.57}(OH)_{0.43})$	P63/M	42	2.653	111.419	0.492	2000	91741
Maucherite	$Pb_6Ca_4(Si_2O_7)_3Cl_2$	P41212	78	3.124	243.654	0.497	1973	34848
Maucherite (subcell)	$Ni_{11}As_8$	I41/AMDZ	10	0.722	7.219	0.217	1973	64832
Maucherite 2M	$Ni_{11}As_8$	C12/C1	38	3.406	129.421	0.649	2009	164878
Mavlyanovite	Mn_5Si_3	P63/MCM	16	1.561	24.980	0.390	2009	166772
Mawbyite	$Pb(Fe_{1.94}Zn_{0.07})(AsO_4)_2((OH)_{1.96}(H_2O)_{0.04})$	C12/M1	19	3.090	58.711	0.727	1997	85132
Mawsonite	$Cu_6Fe_2SnS_8$	P4-M2	17	2.558	43.487	0.626	1976	40047
Maxwellite	$(Na_{0.54}Ca_{0.37})(Fe_{0.402}Al_{0.233}Ti_{0.140}Mg_{0.226})(AsO_4)(F_{0.74}(OH)_{0.26})$	C12/C1	16	2.500	40.000	0.625	1995	81122
Mayenite	$Ca_{12}Al_{14}O_{33}$	I4-3D	64	2.374	151.922	0.396	2007	241244
Mazzite-(Mg)	$Na_{0.3}K_{2.52}Ca_{1.06}Mg_2(Al_{9.72}Si_{26.28}O_{71.61})(H_2O)_{31.87}$	P63/MMC	152	3.694	561.450	0.510	1975	8287
Mazzite-(Na)	$Na_4((Si_{0.77}Al_{0.23})_{18}O_{36})(H_2O)_{15}$	P63/MMC	166	3.575	593.493	0.485	2005	171093
Mcallisterite	$Mg_2(B_6O_7(OH)_6)_2(H_2O)_9$	R3-CH	146	3.733	544.990	0.519	1969	4423
Mcbirneyite	$Cu_3(VO_4)_2$	P-1	13	2.777	36.106	0.751	1982	27184
Mcconnellite	$Cu(CrO_2)$	R3-MH	4	1.500	6.000	0.750	1955	26676
Mcguinessite	$MgCu(OH)_2(CO_3)$	P121/A1	32	3.000	96.000	0.600	2006	109167
McKelveyite-(Y) 2M	$NaBa_3CaY(CO_3)_6(H_2O)_3$	C1C1	64	5.000	320.000	0.833	2008	159982
Mckinstryite	$Ag_{4.92}Cu_{3.08}S_4$	PNMA	96	4.168	400.156	0.633	2010	169681
Medaite	$Mn_6(VSi_5O_{18}(OH))$	P121/N1	128	5.000	640.000	0.714	1981	26908
Medenbachite	$Bi_2FeCuO(OH)_3(AsO_4)_2$	P-1	36	4.281	154.117	0.828	2002	94642

Megacyclite	$Na_{16}K_2(Si_{18}O_{36}(OH)_{18})(H_2O)_{38}$	P21/C	436	6.768	2950.928	0.772	1992	39638
Megakalsilite	$K(AlSiO_4)$	P63	168	4.864	817.145	0.658	2002	95367
Meionite	$Ca_{7.32}K_{0.192}Na_{0.392}(Al_{11.448}Si_{12.552}O_{48})(CO_3)_{1.896}Cl_{0.054}(SO_4)_{0.054}$	P42/NS	90	3.536	318.267	0.545	1973	2628
Meionite	$Ca_{7.32}K_{0.192}Na_{0.392}(Al_{11.448}Si_{12.552}O_{48})(CO_3)_{1.896}Cl_{0.054}(SO_4)_{0.054}$	I4/M	45	3.003	135.133	0.547	1973	2629
Melanite	$(Ca_{2.75}Mg_{0.05}Mn_{0.07}Fe_{0.13})(Al_{0.67}Fe_{1.17}Ti_{0.16})((Si_{2.88}Fe_{0.04}Ti_{0.05})O_{11.83}(OH)_{0.17})$	IA3-D	80	1.595	127.637	0.252	1999	87870
Melanophlogite	$(SiO_2)_{46}(CH_4)_{6.88}$	PM3-N	140	2.582	361.414	0.362	2008	159046
Melanostibite	$Mn(Fe_{0.5}Sb_{0.5})O_3$	R3-H	10	1.371	13.710	0.413	1968	24431
Melanotekite	$Pb_2(Fe_2Si_2O_9)$	PBCN	60	3.107	186.413	0.526	2008	159979
Melanothallite	Cu_2OCl_2	FDDDZ	10	1.522	15.219	0.458	2002	96610
Melanovanadite	$CaV_4O_{10}(H_2O)_5$	P-1	42	4.392	184.477	0.815	1987	202257
Melanterite	$Fe(SO_4)(H_2O)_7$	P21/C	108	4.792	517.528	0.709	2001	280578
Melilite	$Ca_2Mg(Si_2O_7)$	P4-21M	24	2.418	58.039	0.527	2001	92773
Meliphanite	$Ca_4(Na_{2.64}Ca_{1.36})Be_4AlSi_7O_{24}(O_{0.57}F_{3.43})$	I4-	48	3.710	178.078	0.664	2002	95368
Melliniite	$(Ni_{2.32}Fe_{1.68})P$	P213	20	1.371	27.419	0.317	2006	172735
Mellite	$Al_2(C_6(CO_2)_6)(H_2O)_{16}$	I41/ACDZ	296	4.345	1285.998	0.529	1991	41122
Melonite	$NiTe_2$	P3-M1	3	0.918	2.755	0.579	1970	646903
Melonjosephite	$Ca(FeFe)(OH)(PO_4)_2$	PBAM	60	3.640	218.413	0.616	1977	100143
Mendipite	$Pb_3O_2Cl_2$	PNMA	28	2.522	70.606	0.525	2001	93003
Mendozite	$NaAl(SO_4)_2(H_2O)_{11}$	C12/C1	46	3.654	168.084	0.662	1972	26005
Meneghinite (Cu-poor)	$Cu_{0.146}Pb_2(Pb_{0.533}Sb_{0.467})(Pb_{0.463}Sb_{0.537})(Sb_{0.747}Pb_{0.193}Bi_{0.06})S_6$	PNMA	48	3.585	172.078	0.642	2002	97027

Menezesite	$(Ba_{1.47}K_{0.53}Ca_{0.31}Ce_{0.17}Nd_{0.1}Na_{0.06}La_{0.02})(Mg_{0.94}Mn_{0.23}Fe_{0.23}Al_{0.03})(Zr_{2.75}Ti_{0.95}Th_{0.29})((Ba_{0.72}Th_{0.26}U_{0.02})(Nb_{9.23}Ti_{2.3}Ta_{0.36}Si_{0.12})O_{42})(H_2O)_{12}$	IM3-	74	2.596	192.137	0.418	2008	159045
Menzerite-(Y)	$(Ca_{0.491}Y_{0.509})_3(Fe_{0.406}Mg_{0.594})_2(SiO_4)_3$	IA3-D	80	1.595	127.637	0.252	2010	169936
Mercallite	$K(HSO_4)$	PBCA	120	3.907	468.827	0.566	1976	346
Mereheadite	$Pb_{47}O_{24}(OH)_{13}Cl_{25}(BO_3)_2(CO_3)$	C1M1	115	5.976	687.231	0.873	2009	166776
Mereiterite	$K_2Fe(SO_4)_2(H_2O)_4$	C12/M1	50	4.124	206.193	0.731	2001	92703
Mereiterite	$K_2Fe(SO_4)_2(H_2O)_4$	P121/A1	100	4.684	468.386	0.705	2001	92704
Merenskyite	$PdTe_2$	P3-M1	3	0.918	2.755	0.579	1996	83642
Merlinoite	$(C_8H_{20}N)_{0.8}K_{5.53}(Al_{6.7}Si_{25.3}O_{64})(H_2O)_{15.62}$	IMMM	60	3.540	212.413	0.599	1998	86741
Merrihueite	$K_2Mg_5Si_{12}O_{30}$	P6/MCC	100	2.577	257.739	0.388	1998	77131
Merrillite	$Ca_{18.88}(Mg_{1.87}Fe_{0.13})(PO_4)_{13.77}(PO_3(OH))_{0.23}$	R3CH	92	4.076	375.031	0.625	2008	161256
Merwinite	$Ca_3Mg(SiO_4)_2$	P121/A1	56	3.807	213.212	0.656	1972	26002
Mesolite	$Na_2Ca_2(Al_6Si_9O_{30})(H_2O)_8$	FDD2	146	5.204	759.714	0.724	1986	61242
Messelite	$Ca_2(Fe_{0.89}Mg_{0.11})(PO_4)_2(H_2O)_2$	P-1	19	3.301	62.711	0.777	2003	96784
Meta-ankoleite low	$K(UO_2)(PO_4)(D_2O)_3$	P21CN	72	4.170	300.235	0.676	1993	73616
Meta-autunite 9A	$Ca(UO_2)_2(PO_4)_2(H_2O)_6$	P4/NMMZ	26	2.470	64.211	0.525	2009	168235
Meta-sillimanite	$Al_2(SiO_4)O$	PBNM	32	2.750	88.000	0.550	2001	92637
Metaankoleite (deuterated)	$K(UO_2)(PO_4)(D_2O)_3$	P4/NCCZ	48	2.252	108.078	0.403	1991	71328
Metaborite	HBO_2	P4-3N	96	2.000	192.000	0.304	1963	34639
Metacinnabar	HgS	F4-3M	2	1.000	2.000	1.000	1996	81917
Metadomeykite	Cu_3As	P3-C1	24	1.730	41.510	0.377	1971	604157
Metahalloysite	$Si_2Al_2O_5(OH)_4$	C1M1	13	2.931	38.106	0.792	1935	26717

Metahohmannite	$Fe_2(O(SO_4)_2)(H_2O)_4$	P-1	34	4.087	138.974	0.803	2004	98821
Metakahlerite	$Fe(UO_2AsO_4)_2(H_2O)_8$	P-1	50	4.644	232.193	0.823	2004	171970
Metakirchheimerite	$Co(UO_2AsO_4)_2(H_2O)_8$	P-1	50	4.644	232.193	0.823	2004	171971
Metamesolite	$(Na_{5.33}Ca_{5.33})(Al_{16}Si_{24}O_{80})(H_2O)_{15.7}$	FDD2	38	3.301	125.421	0.629	2010	168086
Metamunirite	$Na(VO_3)$	PNMA	20	2.322	46.439	0.537	1984	29450
Metanatrolite	$Na_2(Al_2Si_3O_{10})$	F112	36	4.225	152.117	0.817	2007	157309
Metarossite	$Ca(VO_3)_2(H_2O)_2$	P-1	22	3.459	76.107	0.776	1960	40085
Metaschoepite	$((UO_2)_4O(OH)_6)(H_2O)_5$	PBCN	200	4.724	944.771	0.618	2007	156714
Metaswitzerite	$Mn_4Fe_{1.75}(PO_4)_4(H_2O)_8$	P21/C	136	5.087	691.895	0.718	1979	100263
Metathenardite	$Na_2(SO_4)$	P63/MMC	10	1.922	19.219	0.579	1996	81503
Metatorbernite	$Cu(UO_2)_2(PO_4)_2(H_2O)_8$	P4/NZ	42	3.249	136.477	0.603	2010	167978
Metauranocircite I	$Ba((UO_2)(PO_4))_2(H_2O)_7$	P1211	48	4.585	220.078	0.821	2005	171036
Metavariscite	$Al(PO_4)(H_2O)_2$	P121/N1	48	3.585	172.078	0.642	1973	2643
Metavauxite	$Fe(H_2O)_6Al_2(PO_4)_2(OH)_2(H_2O)_2$	P21/C	46	3.567	164.084	0.646	1967	24909
Metavivianite	$Fe_3(PO_4)_2(H_2O)_8$	P-1	21	3.440	72.239	0.783	1982	201137
Metavoltine	$K_2Na_6Fe_7(SO_4)_{12}O_2(H_2O)_{18}$	P3	95	5.118	486.245	0.779	1976	8270
Metazeunerite	$Cu(UO_2AsO_4)_2(H_2O)_8$	P4/NMMZ	26	2.470	64.211	0.525	2003	412822
Meurigite	$(K_{0.924}(H_2O)_{2.5})(Fe_{7.452}(PO_4)_{5.454}(OH)_7(H_2O)_{6.119})$	C12/C1	108	4.792	517.528	0.709	2007	157722
Meyerhofferite	$Ca(B_3O_3(OH)_5)(H_2O)$	P-1	40	4.322	172.877	0.812	1993	75922
Mgriite	Cu_3AsSe_4	F4-3M	2	1.000	2.000	1.000	1985	42581
Miargyrite	$AgSbS_2$	C12/C1	16	2.250	36.000	0.563	2002	94647
Miassite	$Rh_{17}S_{15}$	PM3-M	64	2.377	152.147	0.396	1962	23930
Michenerite	$Pd(Bi_{0.88}Sb_{0.12})Te$	P213	12	1.585	19.020	0.442	1973	40050

Microcline (intermediate)	$K(AlSi_3O_8)$	C1-	26	3.700	96.211	0.787	1969	9542
Microlite	$NaCa(Nb_2O_6)F$	FD3-MS	22	1.686	37.088	0.378	1930	24445
Microsommite	$Na_{4.88}K_{1.12}Ca_2(SO_4)Cl_2(AlSiO_4)_6$	P63	160	4.777	764.254	0.652	2001	158576
Miersite	AgI	F4-3M	2	1.000	2.000	1.000	1999	56552
Miguelromeroite	$(Mn_5(H_2O)_4)(AsO_3(OH))_2(AsO_4)_2$	C12/C1	70	4.158	291.050	0.678	2009	165662
Miharaite	$Cu_4FePbBiS_6$	PB21M	26	3.700	96.211	0.787	1988	65082
Mikasaite	$Fe_2(SO_4)_3$	R3-H	34	2.689	91.425	0.529	1976	22368
Milarite	$KCa_2((Be_{2.3}Al_{0.7})Si_{12}O_{30})(H_2O)_{0.7}$	P6/MCC	100	2.577	257.739	0.388	1974	6260
Millerite	NiS	R3MH	6	1.000	6.000	0.387	2004	151602
Millerite	NiS	P63/MMC	4	1.000	4.000	0.500	2004	151603
Millosevichite	$Al_2(SO_4)_3$	R3-H	34	2.689	91.425	0.529	1993	73249
Milotaite	PdSbSe	P213	12	1.585	19.020	0.442	2005	171030
Mimetite	$Pb_{10}(AsO_3)_6Cl_{1.48}O_{6.26}$	P63/M	44	2.799	123.156	0.513	2008	241168
Minamiite	$(Na_{0.36}K_{0.1}Ca_{0.27})Al_3(SO_4)_2(OH)_6$	R3-MH	52	3.459	179.854	0.607	1982	17051
Minasragrite	$(VO)(SO_4)(H_2O)_5$	P21/C	88	4.459	392.430	0.690	1979	8103
Mineevite-(Y)	$Na_{25}Ba(Y_{0.55}Gd_{0.25}Dy_{0.20})_2(CO_3)_{11}(HCO_3)_4(SO_4)_2F_2Cl$	P63/M	202	4.402	889.175	0.575	1992	39649
Minehillite	$K_{1.896}Ca_{28}(Zn_{4.812}Al_4Si_{40}O_{112})(OH)_{16}$	P3-C1	224	4.442	995.025	0.569	1995	79739
Minguzzite	$K_3Fe(C_2O_4)_3(H_2O)_3$	P21/C	100	4.644	464.386	0.699	1958	56908
Minium	Pb_3O_4	P42/MBC	28	1.950	54.606	0.406	1975	4106
Minyulite	$K(Al_2F(H_2O)_4(PO_4)_2)$	PBA2	52	3.777	196.423	0.663	2001	94358
Mirabilite	$Na_2(SO_4)(H_2O)_{10}$	P21/C	164	5.358	878.639	0.728	2001	411348
Miserite	$K_{1.29}Ca_{5.51}Fe_{0.04}Mn_{0.02}Mg_{0.02}Y_{0.18}Ce_{0.23}Si_6O_{14.74}(OH)_{0.26}Si_2O_7F(OH)(H_2O)_{0.25}$	P-1	81	5.352	433.528	0.844	2006	250291

Mitridatite	$(Ca(H_2O))_6Fe_9O_6(PO_4)_9(H_2O)_3$	A1A1	150	6.229	934.323	0.862	1977	201241
Mitryaevaite	$(Al_5(PO_4)_2((P_{0.74}S_{0.26})O_3(O_{0.76}(OH)_{0.24}))_2F_2(OH)_2(H_2O)_8)(H_2O)_{6.48}$	P-1	50	4.684	234.193	0.830	2001	92823
Mitscherlichite	$K_2CuCl_4(H_2O)_2$	P42/MNM	26	2.470	64.211	0.525	1970	16052
Mixite	$Bi_{0.66}Ca_{0.34}H_{0.34}Cu_6(OH)_6(AsO_4)_3(H_2O)_3$	P63/M	62	3.033	188.062	0.509	1986	70117
Moctezumite	$Pb(UO_2)(TeO_3)_2$	P21/C	48	3.585	172.078	0.642	1993	73442
Modderite	CoAs	PNAM	8	1.000	8.000	0.333	1984	48030
Moeloite	$Pb_6Sb_6S_{14}(S_3)$	P21221	58	3.892	225.763	0.664	2002	94852
Moganite	SiO_2	I12/A1	18	2.281	41.059	0.547	1992	67669
Mohrite (deuterated)	$(ND_4)_2(Fe(D_2O)_6)(SO_4)_2$	P121/A1	78	4.311	336.261	0.686	1989	65669
Moissanite 105R	SiC	R3MH	70	6.129	429.050	1.000	1969	42870
Moissanite 141R	SiC	R3MH	94	6.555	616.131	1.000	1969	42872
Moissanite 15R	SiC	R3MH	10	3.322	33.219	1.000	1944	24168
Moissanite 168R	SiC	R3MH	112	6.807	762.424	1.000	1969	42873
Moissanite 16H	SiC	P63MC	32	4.000	128.000	0.800	1969	42858
Moissanite 174R	SiC	R3MH	116	6.858	795.526	1.000	1969	42874
Moissanite 174R	SiC	R3MH	116	6.858	795.526	1.000	1960	43727
Moissanite 18H	SiC	P3M1	36	5.170	186.117	1.000	1969	42859
Moissanite 21R	SiC	R3MH	14	3.807	53.303	1.000	1969	42861
Moissanite 24R	SiC	R3MH	16	4.000	64.000	1.000	1965	18136
Moissanite 27H	SiC	P3M1	54	5.755	310.764	1.000	1958	44510
Moissanite 27R	SiC	R3MH	18	4.170	75.059	1.000	1952	24631
Moissanite 2H	SiC	P63MC	4	1.000	4.000	0.500	1959	24261

Moissanite 33R	SiC	R3MH	22	4.459	98.107	1.000	2006	171461
Moissanite 36H	SiC	P3M1	72	6.170	444.235	1.000	1964	42864
Moissanite 39H	SiC	P3M1	78	6.285	490.261	1.000	1969	42865
Moissanite 39R	SiC	R3MH	26	4.700	122.211	1.000	1969	42863
Moissanite 3C	SiC	F4-3M	2	1.000	2.000	1.000	1978	164975
Moissanite 4H	SiC	P63MC	8	2.000	16.000	0.667	1944	24170
Moissanite 4H	SiC	P63MC	8	2.000	16.000	0.667	1978	164971
Moissanite 51R	SiC	R3MH	34	5.087	172.974	1.000	1969	42866
Moissanite 51R(b)	SiC	R3MH	34	5.087	172.974	1.000	1952	24632
Moissanite 57R	SiC	R3MH	38	5.248	199.421	1.000	1962	23887
Moissanite 5H	SiC	P3M1	10	3.322	33.219	1.000	1974	107204
Moissanite 69R	SiC	R3MH	46	5.524	254.084	1.000	1969	42867
Moissanite 6H	SiC	P63MC	12	2.585	31.020	0.721	1978	164972
Moissanite 75R	SiC	R3MH	50	5.644	282.193	1.000	1952	24633
Moissanite 84R	SiC	R3MH	56	5.807	325.212	1.000	1952	24634
Moissanite 87R	SiC	R3MH	58	5.858	339.763	1.000	1969	42868
Moissanite 8H	SiC	P63MC	16	3.000	48.000	0.750	1952	24630
Moissanite 90R	SiC	R3MH	60	5.907	354.413	1.000	1969	42869
Moissanite-2H	SiC	P63MC	4	1.000	4.000	0.500	1959	618777
Molybdenite 2H	MoS_2	P63/MMC	6	0.918	5.510	0.355	1983	644245
Molybdenite 3R	MoS_2	R3MH	3	1.585	4.755	1.000	1983	76370
Molybdite	MoO_3	PNMA	16	2.000	32.000	0.500	1963	644063
Molybdomenite	$Pb(SeO_3)$	P121/M1	10	1.922	19.219	0.579	2003	98376

Molysite 3P	$FeCl_3$	P312	24	2.480	59.510	0.541	1993	39765
Molysite 3R	$FeCl_3$	R3-H	8	0.811	6.490	0.270	1993	39764
Monalbite	$Na(AlSi_3O_8)$	C12/M1	26	2.931	76.211	0.624	1979	100507
Monazite	$Ce(PO_4)$	P121/N1	24	2.585	62.039	0.564	1968	22265
Moncheite	$PtTe_2$	P3-M1	3	0.918	2.755	0.579	1985	603741
Monetite low	$Ca(HPO_4)$	P1	28	4.807	134.606	1.000	1980	10504
Monohydrocalcite	$Ca(CO_3)(H_2O)$	P31	63	4.392	276.716	0.735	2008	160811
Montbrayite	$Au_{1.89}Te_{2.95}$	P1	61	5.931	361.775	1.000	1991	56383
Montebrasite	$LiAl(PO_4)(OH)$	C1-	18	3.281	59.059	0.787	1990	68921
Monteponite	CdO	FM3-M	2	1.000	2.000	1.000	1971	620206
Monteregianite-(Y)	$Na_{2.82}K_2Y_2(Si_{16}O_{38})(H_2O)_{8.26}$	P121/N1	148	5.236	774.999	0.726	1987	202258
Montesommaite (subcell)	$K_{4.5}(Al_{4.5}Si_{11.5}O_{32})(H_2O)_4$	I41/AMDZ	30	2.440	73.207	0.497	1990	40111
Montetrisaite	$Cu_6(SO_4)(OH)_{10}(H_2O)_2$	CMC21	20	3.322	66.439	0.769	2009	163137
Montgomeryite	$Al_4Ca_4Mg(PO_4)_6(OH)_4(H_2O)_{12}$	C12/C1	56	4.022	225.212	0.693	1976	12132
Monticellite	$Ca(Mg_{0.93}Fe_{0.07})(SiO_4)$	PBNM	28	2.522	70.606	0.525	1978	100649
Monticellite	$(Ca_{0.88}Mg_{1.12})(SiO_4)$	P21/C	28	2.950	82.606	0.614	2008	173714
Montmorillonite	$Ca_{0.5}(Al_2Si_4O_{11}(OH))$	P1	38	5.248	199.421	1.000	2002	161171
Montmorillonite-(Li)	$Li_{0.62}(Al_{3.01}Fe_{0.45}Mg_{0.54})((Si_{7.8}Al_{0.2})O_{20}(OH)_4)$	C12/M1	19	2.669	50.711	0.628	2008	159276
Montroseite	VO(OH)	PBNM	12	1.585	19.020	0.442	1953	76175
Montroydite	HgO	PNMA	8	1.000	8.000	0.333	1989	40316
Mooihoekite	$Cu_9Fe_9S_{16}$	P4-2M	34	3.146	106.974	0.618	1973	2649
Mooreite	$Mg_9Zn_4Mn_{1.88}(SO_4)_2(OH)_{26}(H_2O)_8$	P121/A1	202	5.668	1144.959	0.740	1980	14188
Moorhouseite	$Co(SO_4)(H_2O)_6$	C12/C1	96	4.627	444.156	0.703	1988	62985

Mopungite	$Na(Sb(OH)_6)$	P42/NS	32	2.250	72.000	0.450	1975	4211
Moraesite	$Be_2(PO_4)(OH)(H_2O)_4$	C12/C1	24	2.752	66.039	0.600	1992	36587
Mordenite	$Na_8Al_8Si_{40}O_{96}(H_2O)_4$	CMCM	82	3.992	327.319	0.628	2011	261538
Morenosite	$Ni(SO_4)(H_2O)_7$	P212121	108	4.755	513.528	0.704	1991	39419
Morinite	$Ca_2NaAl_2F_4(PO_4)_2(OH)(H_2O)_2$	P121/M1	54	4.088	220.764	0.710	1979	36350
Mosandrite	$(Ti_{0.96}Nb_{0.04})(Ca_{0.62}Na_{0.24}Ce_{0.14})(Ca_{2.96}Ce_{0.96}Zr_{0.08})(Si_2O_7)_2((H_2O)_{0.46}(OH)_{1.09}F_{0.45})_2(H_2O)_{0.71}$	P21/C	60	3.974	238.413	0.673	2009	164858
Moschelite	Hg_2I_2	I4/MMM	4	1.000	4.000	0.500	1927	36189
Moschellandsbergite	Ag_2Hg_3	I23	26	1.834	47.682	0.390	1969	58275
Mosesite	$(Hg_2N)_8Cl_3(SO_4)_{1.5}(CO_3)_{1.5}(MoO_4)_{0.5}(H_2O)_8$	F4-3M	6	1.252	7.510	0.484	1953	45151
Moskvinite-(Y)	$Na_2KY(Si_6O_{15})$	IBMM	50	3.284	164.193	0.582	2003	97289
Mottanaite-(Ce)	$Ca_4(Ce_{1.46}Ca_{0.37}Th_{0.17})(Al_{0.5}Fe_{0.38}Mg_{0.03}Ti_{0.07})(Be_{1.18}Li_{0.02})B_{3.99}Si_{3.98}O_{22}(O_{1.04}F_{0.53}(OH)_{0.43})$	P12/A1	82	4.431	363.319	0.697	2002	94643
Mottramite	$PbCu(VO_4)(OH)$	PNMA	36	2.948	106.117	0.570	1995	81588
Motukoreaite	$Mg_6Al_3Na_{0.66}(OH)_{18}(SO_4)_{1.32}(CO_3)_{0.672}(H_2O)_{7.94}$	R3-MH	50	3.352	167.624	0.594	1986	29523
Mounanaite	$Pb(Fe_{1.9}Cu_{0.06}Al_{0.04})(PO_4)_{0.08}(VO_4)_{1.92}F_2$	C12/M1	15	2.707	40.603	0.693	1998	76616
Mountainite	$KNa_2Ca_2(Si_8O_{18}O(OH))(H_2O)_6$	P12/C1	74	4.291	317.500	0.691	2009	260433
Moydite-(Y)	$Y(CO_3)(B(OH)_4)$	PBCA	80	3.322	265.754	0.525	1986	63262
Mozartite	$Ca(Mn_{0.94}Al_{0.06})(OH)(SiO_4)$	P212121	36	3.170	114.117	0.613	1993	75924
Mrazekite	$Bi_2Cu_3(OH)_2O_2(PO_4)_2(H_2O)_2$	C12/M1	21	3.249	68.239	0.740	1992	71934
Mrazekite	$Bi_2Cu_3(OH)_2O_2(PO_4)_2(H_2O)_2$	P121/N1	84	4.440	372.955	0.695	1994	79140
Mroseite	$Ca_2Te_2O_4(CO_3)_2$	PBCA	64	3.000	192.000	0.500	1975	4319
Mueckeite	$(Bi_{0.9}Sb_{0.1})CuNiS_3$	P212121	24	2.585	62.039	0.564	1990	68678
Muirite	$Ba_{10}(Ca_2MnTi)(Si_8O_{26})Cl_8(OH)_2(H_2O)_4$	P4/MMM	63	3.406	214.569	0.570	1971	23533

Mullite	$Al_{2.35}Si_{.64}O_{4.82}$	PBAM	16	2.250	36.000	0.563	1969	23726
Munirite	$Na(VO_3)(H_2O)_{1.89}$	P121/A1	40	3.322	132.877	0.624	1977	1338
Murataite	$(Y_{2.24}Er_{1.14}Na_{2.08}Ca_{0.54})(Zn_{0.89}Si_{0.11})(Zn_{1.92}Fe_{1.01}Na_{0.62}Ti_{0.45})(Ti_{9.16}Nb_{1.57}Na_{1.27})O_{29}(O_{1.88}(OH)_{1.23}F_{7.55})$	F4-3M	71	3.226	229.044	0.525	1995	81595
Murataite - Mu-5	$(Al_{0.20}Mn_{1.83})(Ca_{2.04}U_{0.64})((Ti_{4.99}Zr_{0.71})O_{17.58})$	F4-3M	336	4.892	1643.840	0.583	2010	422137
Murdochite	$PbCu_6O_8$	FM3-M	15	1.706	25.584	0.437	2000	280597
Murmanite	$(Na_{3.33}Ca_{0.21}Mn_{0.14}K_{0.05})(Ti_{3.07}Nb_{0.51}Mn_{0.19}Mg_{0.07}Fe_{0.15}Zr_{0.01})(Si_2O_7)_2(O_{3.76}F_{0.24})(H_2O)_4$	P-1	40	4.322	172.877	0.812	2008	166770
Murunskite	$K(CuFeS_2)$	I4/MMM	5	1.522	7.610	0.655	1994	75578
Muscovite 1M. magnesian	$(K_{0.80}Na_{0.02}Ca_{0.01})(Al_{1.66}Fe_{0.06}Fe_{0.02}Mg_{0.28})(Si_{3.41}Al_{0.59})O_{10}(OH)_2$	C12/M1	21	2.869	60.239	0.653	1985	63123
Muscovite 2M1	$(K_{0.93}Na_{0.07})(Al_{1.87}Fe_{0.09}Mg_{0.07}Ti_{0.04})((Si_{2.97}Al_{1.03})O_{10.05})(OH)_{1.9}F_{0.05}$	C12/C1	40	3.422	136.877	0.643	2008	161220
Muscovite 2M2	$K_{0.77}Al_{1.93}(Al_{0.5}Si_{3.5}O_{10})(OH)_2$	C12/C1	38	3.301	125.421	0.629	1973	4368
Muscovite 3T (Si-rich)	$(K_{0.92}Na_{0.01})(Al_{1.41}Mg_{0.6}Ti_{0.02})(Si_{3.54}Al_{0.46}O_{10})(OH)_2$	P3112	66	3.641	240.322	0.602	1994	75953
Mushistonite	$Cu(Sn(OH)_6)$	P42/NNMZ	32	1.750	56.000	0.350	1976	194
Muthmannite	$AuAgTe_2$	P12/M1	8	2.500	20.000	0.833	2008	165971
Mutinaite	$(Na_{1.72}Ca_{2.73})(Al_{11.184}Si_{84.816})O_{192}(H_2O)_{35.96}$	PNMA	360	5.625	2025.067	0.662	1997	85446
Mutnovskite	$Pb_4As_2S_6ICl$	PNM21	28	3.522	98.606	0.733	2008	245805
Nabalamprophyllite-2O	$(Ba_{0.957}Sr_{0.517}Na_{0.28}K_{0.22}Ca_{0.022})(Na_{2.844}Mn_{0.44}Mg_{0.044})(Ti_{3.102}Fe_{0.121}Nb_{0.044}Al_{0.033})(Si_{2.2}O_7)_2O_2((OH)_{0.89}F_{0.65}O_{0.46})$	PNMN	68	3.558	241.947	0.584	2008	162089
Nabaphite	$NaBa(PO_4)(H_2O)_9$	P213	68	2.969	201.869	0.488	1982	20539
Nabesite	$Na_2(BeSi_4O_{10})(H_2O)_{3.77}$	P212121	108	4.755	513.528	0.704	2010	168120
Nabiasite	$BaMn_9(V_{0.897}As_{0.103}O_4)_6(OH)_2$	PA3-	176	3.208	564.625	0.430	1999	410328

Nabokoite	$KCu_7(TeO_4)(SO_4)_5Cl$	P4/NCCZ	156	3.593	560.523	0.493	1988	68186
Nacaphite	$Na_2Ca(PO_4)F$	P21/C	72	4.170	300.235	0.676	2007	158183
Nacareniobsite-(Ce)	$Na_{2.90}(Ca_{2.91}Sr_{0.04})(Ce_{0.55}La_{0.23}Nd_{0.22}Pr_{0.06}Sm_{0.03}Gd_{0.02}Y_{0.04})(Nb_{0.75}Ti_{0.24}Ta_{0.01})(Si_2O_7)_2(O_{1.24}F_{0.76})F_2$	P21/C	60	3.974	238.413	0.673	2008	162090
Nacrite 2M2	$Al_2(Si_2O_5)(OH)_4$	C1C1	34	4.087	138.974	0.803	1994	80083
Nacrite 4M	$Al_2(Si_2O_5)(OH)_4$	C1C1	52	4.700	244.423	0.825	1933	36232
Nacrite 6M	$Al_2(Si_2O_5)(OH)_4$	C1C1	74	5.209	385.500	0.839	1939	31562
Nadorite	$PbSbO_2Cl$	CMCM	10	1.922	19.219	0.579	1973	86229
Nafertisite	$Na_3Fe_8(Ti_2Si_{12}O_{37})(OH)_6$	A12/M1	70	4.358	305.050	0.711	1996	82768
Nagashimalite	$Ba_4(V_{3.44}Ti_{0.56})(B_2Si_8O_{28})Cl((OH)_{0.44}O_{0.56})$	PMMNZ	96	4.002	384.156	0.608	1980	201047
Nagyagite	$((Pb_{1.476}Sb_{0.524})S_2)(Au_{0.133}Te_{0.867})$	P121/M1	10	2.322	23.219	0.699	1999	87711
Nahcolite	$Na(HCO_3)$	P21/C	24	2.585	62.039	0.564	1965	18183
Nahpoite	$Na_2(HPO_4)$	P121/M1	18	2.725	49.059	0.654	1983	37142
Nalipoite	$Pb_5((Cr_{1.5}Si_{1.5})O_{12})Cl$	PMNB	42	2.653	111.419	0.492	1991	70008
Nalivkinite	$(Li_{1.14}K_{0.75}Cs_{0.09}Na_{0.02})(Na_{0.78}Ca_{0.22})(Fe_{5.64}Mn_{0.9}Sn_{0.09}Ca_{0.07}Mg_{0.04}Zn_{0.04}Pb_{0.02})(Ti_{1.56}Nb_{0.24}Zr_{0.16}Ta_{0.04})((Si_{7.89}Al_{0.15})O_{24})O_2(OH)_4F$	P-1	63	5.025	316.569	0.841	2008	161277
Namansilite	$MnNa(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	1987	62513
Nambulite	$(Li_{0.55}Na_{0.45})Mn_4(Si_5O_{14}(OH))$	P-1	50	4.644	232.193	0.823	1975	1974
Namibite	$Cu(BiO)_2(VO_4)(OH)$	P-1	22	3.550	78.107	0.796	2000	89724
Namuwite	$(Zn_{3.2}Cu_{0.8})(SO_4)(OH)_6(H_2O)_4$	P3-	38	2.997	113.872	0.571	1996	81353
Nanlingite	$(Na_{0.92}Li_{0.08})Li_{1.34}(Ca_{0.73}Na_{0.05})_6(Mg_{1.83}Fe_{0.17})_6(Fe(AsO_3)_6)(AsO_3)_2F_{14}$	R3-MH	66	3.452	227.832	0.571	2011	180796
Nanpingite 2M2	$CsAl_2((AlSi_3)O_{10})(OH)_2$	C12/C1	38	3.301	125.421	0.629	1996	81352

Nantokite	CuCl	F4-3M	2	1.000	2.000	1.000	1994	78270
Narsarsukite	$Na_2TiOSi_4O_{10}$	I4/M	36	2.670	96.117	0.516	1962	16899
Nasinite	$Na_2B_5O_8(OH)(H_2O)_2$	PNA21	92	4.524	416.168	0.693	2009	249876
Nasonite	$Mg_{6.6}Fe_{0.38}(SiO_4)_3F(OH)$	P63/M	96	3.752	360.156	0.570	1971	34847
Nastrophite	$Na(Sr_{.77}Ba_{.20})(PO_4)(H_2O)_9$	P213	136	3.689	501.699	0.520	1981	20268
Natalyite	$NaV(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	1994	78342
Natanite	$Fe(Sn(OH)_6)$	PN3-MZ	32	1.061	33.961	0.212	1960	25821
Natisite	$Na_2TiO(SiO_4)$	P4/NMMS	18	2.059	37.059	0.494	1978	1533
Natrite	$Na_2(CO_3)$	C12/M1	12	2.418	29.020	0.675	2010	168130
Natroalunite	$(Na_{0.75}K_{0.25})Al_3(SO_4)_2(OH)_6$	R3-MH	20	2.333	46.664	0.540	2009	166305
Natrochalcite	$NaCu_2(SO_4)_2(OH)(H_2O)$	C12/M1	18	3.059	55.059	0.734	1993	73265
Natrojarosite	$NaFe_3(SO_4)_2(OH)_6$	R3-MH	20	2.333	46.664	0.540	2008	160409
Natrolemoynite	$Na_{2.12}H_{1.88}Zr_2Si_{10}O_{26}(H_2O)_{9.12}$	C12/M1	50	3.924	196.193	0.695	2001	92975
Natrolite	$Na_2(Al_2Si_3O_{10})(H_2O)_2$	FDD2	38	3.301	125.421	0.629	1973	22016
Natrolite	$Na_2(Al_{1.92}Si_{2.08})SiO_{10.04}(H_2O)_{1.96}$	I4-2D	46	2.697	124.084	0.488	1989	67210
Natrolite	$(Na_{1.92}Mg_{.06}Ca_{.02})Al_2Si_3O_{10}(D_2O)_{3.5}$	F1D1	66	5.044	332.930	0.835	2005	172122
Natrolite	$K_{8.16}Ga_{8.2}Si_{11.8}O_{40}(H_2O)_{11.5}$	I212121	40	3.622	144.877	0.681	2007	173408
Natrolite	$Na_{16}Al_{16}Si_{24}O_{80}(CO_2)_{16}$	C12/C1	84	4.392	368.955	0.687	2011	261524
Natron	$Na_2(CO_3)(H_2O)_{10.12}$	C1C1	72	5.170	372.235	0.838	2003	97924
Natroniobite	$Na(NbO_3)$	P12/M1	5	2.322	11.610	1.000	1961	28565
Natropharmacosiderite	$(Na_{0.75}K_{0.14}Ba_{0.11})Fe_4(AsO_4)_3(OH)_{3.89}O_{0.11}(H_2O)_4$	P4-3M	30	2.356	70.677	0.480	2010	180193
Natrophilite	$NaMn(PO_4)$	PMNB	28	2.522	70.606	0.525	1986	201771
Natrophosphate	$Na_7F(PO_4)_2(H_2O)_{19}$	FD3-CZ	568	3.713	2109.177	0.406	1974	2156

Natrophosphate	$Na_7F(PO_4)_2(H_2O)_{19}$	FD3-CZ	296	2.995	886.588	0.365	1992	39626
Natrosilite	$Na_2(Si_2O_5)$	P121/A1	36	3.170	114.117	0.613	1968	34688
Natrotantite	$Na_2Ta_4O_{11}$	R3-CH	34	2.380	80.935	0.468	1985	40984
Natroxalate	$Na_2(C_2O_4)$	P21/C	16	2.000	32.000	0.500	1981	56906
Naujakasite	$Na_6FeSi_8Al_4O_{26}$	C12/M1	45	3.803	171.133	0.692	1977	2116
Naumannite	Ag_2Se	P212121	12	1.585	19.020	0.442	2008	260148
Nchwaningite	$Mn_2(SiO_3)(OH)_2(H_2O)$	PCA21	52	3.700	192.423	0.649	1995	80118
Nealite	$Pb_4Fe(AsO_3)_2Cl_4(H_2O)_2$	P-1	19	3.301	62.711	0.777	1993	73998
Nechelyustovite	$((Na_{1.66}Mn_{0.65}Ca_{0.32})(Ti_{0.67}Mn_{0.33}))((Na_{2.04}Mn_{0.45}Ca_{0.08})Ti)((Ti_{1.39}Nb_{0.57}Al_{0.04})(Ti_{1.08}Nb_{0.86}Fe_{0.06}))(Ba_{1.28}Sr_{0.50}K_{0.30}Na_{0.5})(Si_2O_7)_4O_4((OH)_{2.94}F_{1.06})(H_2O)_6(Ba_{0.80})$	P-1	130	6.022	782.908	0.858	2009	168805
Nefedovite	$Na_5Ca_4(PO_4)_4F$	I4-	30	3.040	91.207	0.620	1984	20906
Neighborite	$NaMgF_3$	PBNM	20	1.922	38.439	0.445	1992	72318
Nekoite	$Ca_3(Si_6O_{15})(H_2O)_7$	P1	31	4.954	153.580	1.000	1980	100436
Neltnerite	$(Ca_{0.95}Mn_{0.05})(Mn_6SiO_{12})$	I41/ACDZ	80	2.822	225.754	0.446	1991	158203
Nenadkevichite	$Na_{4.26}Nb_{3.94}Si_8O_{24.12}O_{2.8}(OH)_{1.2}(H_2O)_8$	PBAM	56	3.379	189.212	0.582	1973	2584
Nepheline	$Na_3K((Si_{0.558}Al_{0.442})_8O_{16})$	P63	56	3.449	193.134	0.594	1970	2937
Nepheline	$Na_4Al_3(AlSi_5O_{18})$	P3-C1	26	1.834	47.682	0.390	1954	20680
Nepheline	$Na_6K_{1.2}(Al_{7.2}Si_{8.8}O_{32})$	P63/M	56	2.735	153.134	0.471	1970	64892
Nepheline	$Na(AlSiO_4)$	P61	168	4.807	807.636	0.650	1998	85553
Nepheline	$Al_4Ca_{0.03}K_{0.54}Na_{3.24}O_{16}Si_4$	P3	56	4.449	249.134	0.766	2011	261308
Neptunite	$KNa_2LiFe_2Ti_2(SiO_3)_8$	C1C1	80	5.322	425.754	0.842	2007	250421
Nesquehonite	$Mg(CO_3)(H_2O)_3$	P121/N1	28	2.807	78.606	0.584	2010	169543
Neustaedtelite	$Bi_2Fe(Fe_{0.5}Co_{0.5})O_{1.5}(OH)_{2.5}(AsO_4)_2$	P-1	18	3.281	59.059	0.787	2002	94640

Nevadaite	$(Cu_2VAl)Al_8(PO_4)_8F_8(OH)_2(H_2O)_{22}$	P21MN	86	4.589	394.659	0.714	2004	54832
Nevskite	$Bi_{1.007}Se_{0.993}$	P3-M1	12	2.585	31.020	0.721	1995	79019
Newberyite	$Mg(HPO_4)(H_2O)_3$	PBCA	128	4.000	512.000	0.571	1983	158937
Neyite	$Ag_{1.04}Cu_3Pb_{12.27}Bi_{13.19}S_{34}$	C12/M1	127	5.997	761.563	0.858	2001	92979
Nezilovite	$Pb(Zn_{1.9}Mn_{.1})(Al_{.7}Fe_{.3})(Fe_{.6}Ti_{.4})(Fe_{5.2}Mn_{2.5}Al_{.3})O_{19}$	P63/MMC	66	3.187	210.362	0.527	1996	76835
Niahite	$(ND_4)Mn(PO_4)(D_2O)$	PMN21	28	3.379	94.606	0.703	1995	81275
Niccoloferrite	$Fe_{0.92}Ni_{0.18}(Fe_{0.93}Ni_{1.07})O_4$	FD3-MS	18	1.837	33.059	0.440	2002	94872
Nichromite	$NiCr_2O_4$	F41/DDMZ	14	1.379	19.303	0.362	1983	31299
Nichromite	$NiCr_2O_4$	I41/AMDS	14	1.379	19.303	0.362	1961	37023
Nichromite high	$NiCr_2O_4$	FD3-MZ	14	1.379	19.303	0.362	1983	31298
Nickel	Ni	FM3-M	1	0.000	0.000	Nan	1962	43397
Nickelalumite	$(Ni_{0.55}Zn_{0.39}V_{0.02}Fe_{0.01})Al_4(SO_4)(OH)_{12}(H_2O)_3$	P121/N1	172	5.426	933.318	0.731	2005	156628
Nickelaustinite	$CaNi(AsO_4)(OH)$	P212121	36	3.170	114.117	0.613	1987	202422
Nickelbischofite	$NiCl_2(H_2O)_6$	C12/M1	21	2.869	60.239	0.653	1969	64879
Nickelbloedite	$Na_2Ni(SO_4)_2(H_2O)_4$	P21/C	50	3.684	184.193	0.653	2006	249163
Nickelboussingaultite	$(Ni(H_2O)_6)(NH_4)_2(SO_4)_2$	P21/C	78	4.311	336.261	0.686	1994	74552
Nickelhexahydrite	$Ni(SO_4)(H_2O)_6$	C12/C1	96	4.627	444.156	0.703	1988	65103
Nickeline	NiAs	P63/MMC	4	1.000	4.000	0.500	1962	43361
Nickellotharmeyerite	$(Ca_{0.969}Bi_{0.031})(Ni_{1.1}Fe_{0.7}Co_{0.2})(AsO_4)_2((OH)_{0.73}(H_2O)_{1.27})$	C12/M1	15	2.707	40.603	0.693	2001	96047
Nickelrichterite. potassian	$K(NaCa)Ni_5(Si_8O_{22})(OH)_2$	C12/M1	40	3.672	146.877	0.690	1993	73430
Nickelschneebergite	$(Bi_{0.551}Ca_{0.449})(NiCo_{0.62}Fe_{0.4})(AsO_4)_2((OH)(H_2O))$	C12/M1	15	2.707	40.603	0.693	2002	158110
Nickenichite	$Na_{0.76}Ca_{0.41}Cu_{0.39}(Mg_{0.89}Fe_{0.11})(Mg_{0.78}Fe_{0.22})_2(AsO_4)_3$	C12/C1	40	3.522	140.877	0.662	1993	74468

Niedermayrite	$Cu_4Cd(SO_4)_2(OH)_6(H_2O)_4$	P121/M1	78	4.414	344.261	0.702	1998	54147
Nielsbohrite	$K(UO_2)_3(AsO_4)(OH)_4(H_2O)$	CCCM	40	3.122	124.877	0.587	2009	163168
Nierite	Si_3N_4	P31C	28	2.449	68.567	0.509	1995	79797
Nifontovite	$Ca_3(B_3O_3(OH)_6)_2(H_2O)_2$	B112/B	90	4.514	406.267	0.695	1978	20196
Nigerite	$(Sn_{1.736}Ti_{0.264})Al_{14.784}Li_{0.576}Zn_{2.102}Fe_{1.97}Mn_{0.034}Mg_{0.258}O_{30}(OH)_2$	R3-MH	56	3.896	218.153	0.671	2004	172102
Niggliite	PtSn	P63/MMC	4	1.000	4.000	0.500	1970	649673
Nikischerite	$NaFe_6Al_3(SO_4)_2(OH)_{18}(H_2O)_{12}$	R3-H	50	3.352	167.624	0.594	2003	97312
Niningerite	MgS	FM3-M	2	1.000	2.000	1.000	1980	642787
Niobokupletskite	$(K_{1.78}Rb_{0.13})Na_{0.9}(Na_{0.18}Mn_{5.98}Zn_{0.84})(Nb_{1.8}Ti_{0.2})(Si_8O_{26})(OH)_4O$	P-1	51	4.731	241.294	0.834	2000	89859
Niobophyllite	$(K_{1.79}Cs_{0.03})Na(Fe_{4.57}Mn_{1.98})(Nb_{1.46}Ti_{0.53}Ta_{0.01})(Si_{7.8}Al_{0.2}O_{24})O_2(OH)_4(O_{0.74}(OH)_{0.13}F_{0.13})$	P-1	53	4.785	253.580	0.835	2010	166992
Niocalite	$Nb_2Ca_{14}(Si_2O_7)_4O_6F_2$	P1A1	60	4.907	294.413	0.831	1982	158915
Nisbite	$NiSb_2$	PNNM	6	0.918	5.510	0.355	1979	41728
Nissonite	$Cu_2Mg_2(PO_4)_2(OH)_2(H_2O)_5$	C12/C1	66	4.075	268.930	0.674	1990	69386
Niter	$K(NO_3)$	PMCN	20	1.922	38.439	0.445	1973	10289
Nitrammite	$(NH_4)(NO_3)$	PMMNZ	18	2.503	45.059	0.600	1972	2772
Nitrammite high	$(NH_4)(NO_3)$	PNMA	16	1.500	24.000	0.375	1980	31543
Nitrammite high (deuterated)	$(ND_4)(NO_3)$	P4-21M	18	2.059	37.059	0.494	1979	8027
Nitratine	$Na(NO_3)$	R3-CH	10	1.371	13.710	0.413	1972	2865
Nitratine	$Na(NO_3)$	R3-MH	8	1.061	8.490	0.354	2011	180923
Nitrobarite	$Ba(NO_3)_2$	PA3-	88	2.914	256.430	0.451	1983	35348

Nitrocalcite	$Ca(NO_3)_2(H_2O)_4$	P121/N1	84	4.392	368.955	0.687	1975	28059
Nitromagnesite	$(Mg(H_2O)_6)(NO_3)_2$	P21/C	30	2.974	89.207	0.606	1969	23220
Niveolanite	$(Na_{0.90}Ca_{0.09})Be(CO_3)((OH)_{0.92}O_{0.08})(H_2O)_{1.09}$	P4/MCC	64	2.750	176.000	0.458	2008	162091
Nolanite	$Al_{0.2}Fe_{3.5}Ti_{1.1}V_{5.2}O_{14}(OH)_2$	P63MC	26	2.603	67.682	0.554	1983	31216
Nontronite	$Na(Fe_4AlSi_7O_{20}(OH)_4)$	C12/M1	19	2.669	50.711	0.628	1998	86916
Norbergite	$Mg_3(SiO_4)((OH)_{0.31}F_{1.69})$	PBNM	40	2.722	108.877	0.511	2008	162036
Nordenskioeldine	$CaSn(BO_3)_2$	R3-H	10	1.571	15.710	0.473	1986	30998
Nordite-(La)	$LaSrNa_3Zn(Si_6O_{17})$	PCCA	116	4.030	467.526	0.588	1970	15179
Nordstrandite	$Al(OH)_3$	P-1	22	3.459	76.107	0.776	2009	164050
Nordstroemite	$CuPb_3Bi_7Se_4S_{10}$	P121/M1	50	4.644	232.193	0.823	1980	41429
Normandite	$(Na_{1.17}Ca_{0.83})Mn(Ti_{0.612}Zr_{0.388})(Si_2O_7)OF$	P121/A1	60	3.907	234.413	0.661	2000	89860
Norrishite 1M	$Pb_2F_2(SO_4)$	C12/M1	18	2.281	41.059	0.547	1991	69607
Norsethite	$BaMg(CO_3)_2$	R3-MH	10	1.571	15.710	0.473	1999	89039
Northupite	$Na_3Mg(CO_3)_2Cl$	FD3-Z	52	1.988	103.364	0.349	1975	4237
Nosean	$Na_8(Al_6Si_6O_{24})(SO_4)$	P4-3M	49	2.491	122.062	0.444	1970	18125
Novacekite	$Mg(UO_2AsO_4)_2(H_2O)_{12}$	P-1	29	3.892	112.881	0.801	2004	171962
Novacekite	$Mg(UO_2AsO_4)_2(H_2O)_{10}$	P121/N1	54	3.792	204.764	0.659	2004	171968
Novgorodovaite	$Ca_2(C_2O_4)Cl_2(H_2O)_2$	I12/M1	16	2.500	40.000	0.625	2001	95291
Nowackiite	$Cu_6Zn_3(AsS_3)_4$	R3H	25	3.122	78.057	0.672	1967	26827
Nuffieldite	$Pb_2Cu_{1.37}(Pb_{0.37}Bi_{0.39}Sb_{0.24})Bi_2S_7$	PBNM	56	3.807	213.212	0.656	1997	84625
Nukundamite	$Cu_{3.39}Fe_{0.61}S_4$	P3-M1	8	2.000	16.000	0.667	1981	100727
Nyboeite	$(Na_{0.79}K_{0.03})(Na_{1.65}Ca_{0.35})(Fe_{0.61}Mg_{2.99}Ni_{0.01}Al_{1.37}Ti_{0.02})((Si_{7.22}Al_{0.78})O_{22}(OH)_2)$	C12/M1	43	3.798	163.329	0.700	2003	98372

Nyerereite high	$(Na_{0.82}K_{0.18})_2Ca(CO_3)_2$	P63MC	22	2.595	57.088	0.582	1977	100086
Nyerereite low	$(Na_{0.82}K_{0.18})_2Ca(CO_3)_2$	CMC21	16	2.750	44.000	0.688	1977	100085
O'danielite	$NaZn_2(Zn_{0.6}Mg_{0.4})H_2(AsO_4)_3$	C12/C1	38	3.406	129.421	0.649	1988	63283
Obertiite	$(Na_{0.82}K_{0.18})(Na_{1.84}Fe_{0.06}Ca_{0.08})(Mg_{3.09}Mn_{0.37}Fe_{0.65}Ti_{0.86}Al_{0.03})Si_8O_{22}(O_{1.54}(OH)_{0.46})$	C12/M1	41	3.699	151.660	0.690	2000	89801
Odintsovite	$K_2Na_{3.75}Li_{0.25}Ca_3Ti_2O_2(Be_4(Si_6O_{18})_2)$	FDDDZ	130	4.176	542.908	0.595	1995	39874
Offretite	$KCa_{0.92}Mg_{0.82}(Si_{13.52}Al_{4.48}O_{36})(H_2O)_{9.84}$	P6-M2	73	3.634	265.250	0.587	1972	2747
Ohmilite	$Sr_3(TiO)(Si_2O_6)_2(H_2O)_{2.274}$	P121/M1	48	4.002	192.078	0.717	1983	31213
Ojuelaite	$ZnFe_2(AsO_4)_2(OH)_2(H_2O)_4$	P21/C	38	3.301	125.421	0.629	1996	51236
Okanoganite-(Y)	$(Y_{7.56}Ce_{4.41}Ca_{2.64}Th_{0.39})(Fe_{0.77}Ti_{0.23})Na(Si_{6.4}P_{0.6}B_3O_{34}(OH)_4)F_{10}$	R3MH	75	4.531	339.799	0.727	2004	55251
Okenite	$Ca_5(Si_9O_{23})(H_2O)_9$	P-1	94	5.555	522.131	0.847	1983	31207
Oldhamite	CaS	FM3-M	2	1.000	2.000	1.000	1977	619540
Olenite	$(Na_{0.52}Ca_{0.01})(Al_{1.62}Fe_{0.83}Mn_{0.42}Li_{0.05}Ti_{0.03})(Al_{5.87}Mg_{0.13})(Si_{5.73}Al_{0.17}Fe_{0.1})O_{18}(BO_3)_3((OH)_{3.32}O_{0.54}F_{0.14})$	R3MH	53	3.637	192.747	0.635	2004	54822
Olgite	$(Ba_{0.88}Sr_{0.12})(Na_{1.24}Sr_{0.66}Ce_{0.06}La_{0.04})(Na_{0.96}Ca_{0.04})(PO_4)_2$	P3-M1	14	2.271	31.793	0.596	2005	156630
Olivenite	$Cu_2((As_{0.92}P_{0.08})O_4)(OH)$	P21/N11	36	3.170	114.117	0.613	2008	260063
Olmiite	$Ca(Mn_{0.85}Ca_{0.14}Fe_{0.01})(SiO_3(OH))(OH)$	PBCA	80	3.322	265.754	0.525	2007	161008
Olmsteadite	$K_2Fe_2(Fe_2(Nb_{0.71}Ta_{0.29})_2O_4(H_2O)_4(PO_4)_4)$	PB21M	36	3.725	134.117	0.721	1976	12138
Olshanskyite	$Ca_2(B_3O_3(OH)_6)(OH)(H_2O)_3$	P-1	62	4.954	307.160	0.832	2001	92820
Olympite	$LiNa_5(PO_4)_2$	PCMN	128	4.250	544.000	0.607	1992	39628
Omeiite	$OsAs_2$	PNNM	6	0.918	5.510	0.355	1977	995
Ominelite	$(Mg_{0.478}Fe_{0.522})(Al_3BSiO_9)$	PBNM	60	3.640	218.413	0.616	2007	156735

Omongwaite	$Ca_{0.857}Na_{0.285}(SO_4)(H_2O)_{0.473}$	C121	21	3.535	74.239	0.805	1999	88942
Omphacite	$(Na_{0.485}Ca_{0.515})(Al_{0.434}Mg_{0.4075}Fe_{0.1585})(Si_2O_6)$	P12/N1	40	3.522	140.877	0.662	1975	4372
Omphacite	$(Mg_{0.781}Fe_{0.053}Al_{0.116}Cr_{0.037}Ti_{0.013})(Ca_{0.762}Na_{0.096}Fe_{0.024}Mg_{0.111}Mn_{0.007})(Si_{1.917}Al_{0.083}O_6)$	C12/C1	20	2.522	50.439	0.584	1992	74538
Oneillite	$(Na_{13.61}K_{0.19})(Ca_{1.77}Ce_{2.1}Y_{0.25})(Fe_{1.41}Mn_{3.7})Zr_{3.17}(SiNb_{0.92})(Si_{24}O_{72})O_{3.2}Cl_{0.73}(OH)_{0.8}$	R3H	131	5.509	721.673	0.783	1999	56960
Onoratoite	$Sb_8O_{10.54}Cl_2$	C12/M1	22	3.459	76.107	0.776	1984	49593
Orcelite	Ni_5As_2	P63CM	42	3.070	128.928	0.569	1973	15053
Ordonezite	$Zn(Sb_2O_6)$	P42/MNM	18	1.837	33.059	0.440	2002	96612
Orientite	$Ca_2Mn_3(Si_{2.5}O_{10})(OH)_4$	BBMM	46	3.393	156.084	0.614	1985	201629
Orientite	$Ca_8Mn_{10.64}(Si_{12.32}O_{42})(OH)_{10}(H_2O)_4$	P2MM	93	5.356	498.142	0.819	1986	201730
Orlandiite	$Pb_3Cl_4(SeO_3)(H_2O)$	P-1	24	3.585	86.039	0.782	2003	55301
Orpiment	As_2S_3	P21/C	20	2.322	46.439	0.537	1972	655775
Orschallite	$Ca_3(SO_3)_2(SO_4)(H_2O)_{12}$	R3-CH	52	2.574	133.854	0.452	1993	73997
Orthoclase	$K_4Al_4Si_{12}O_{32}$	C12/M1	26	2.931	76.211	0.624	1968	9544
Orthoenstatite	$Mg(Ca_{0.031}Mg_{0.969})(Si_2O_6)$	PBCA	80	3.322	265.754	0.525	2003	97707
Orthoericssonite	$(Ba_{0.7}Sr_{0.3})(Mn_{1.4}Fe_{.6})(Fe_{.9}Ti_{.1})(Si_2O_7)O_{1.39}(OH)_{.611}$	PNMN	60	3.440	206.413	0.582	1980	201041
Orthominasragrite	$(VO(H_2O)_5)(SO_4)$	PMN21	44	3.823	168.215	0.700	2001	92978
Orthopinakiolite	$(Mg_{1.423}Mn_{1.306}Fe_{0.22})O_2(BO_3)$	PNNM	144	4.837	696.469	0.675	1978	200425
Orthostanleyite	$(VO)(SO_4)(H_2O)_5$	PMN21	44	3.732	164.215	0.684	1980	23308
Orthowalpurgite	$(UO_2)Bi_4(AsO_4)_2O_4(H_2O)_2$	PBCM	92	3.741	344.168	0.573	1995	80915
Osarizawaite	$Pb(CuAl_{1.6}Fe_{.4})(SO_4)_2(OH)_6$	R3-MH	26	2.574	66.927	0.548	1980	100441
Osarsite	OsAsS	P21/C	12	1.585	19.020	0.442	1964	42580
Osbornite	$TiN_{0.9}$	FM3-M	2	1.000	2.000	1.000	1978	1547

Osmiridium	$(Ir_{0.8}Os_{0.2})$	FM3-M	1	0.000	0.000	Nan	1967	104526
Osmium	Os	P63/MMC	2	0.000	0.000	0.000	1961	40323
Osumilite. magnesian	$K_{0.76}(Fe_{0.82}Mg_{1.18})(Fe_{0.18}Al_{2.82})(Si_{10.35}Al_{1.65}O_{30})$	P6/MCC	96	2.432	233.510	0.369	1988	202737
Otavite	$Cd(CO_3)$	R3-CH	10	1.371	13.710	0.413	2007	156755
Ottemannite	$Sn(SnS_3)$	PNMA	20	2.322	46.439	0.537	1982	31995
Ottoite	$Pb_2(TeO_5)$	I12/A1	16	2.250	36.000	0.563	2010	168000
Oursinite	$(Co_{0.8}Mg_{0.2})((UO_2)(SiO_3OH))_2(H_2O)_6$	CMCA	74	3.804	281.500	0.613	2006	172733
Overite	$Mg_{0.1}Ca_{0.9}CO_3$	PBCA	10	1.371	13.710	0.413	1977	10405
Owensite	$(Ba_{5.44}Pb_{0.56})(Cu_{13.09}Fe_{11.91})S_{27}$	PM3-M	58	2.270	131.685	0.388	1995	81609
Owyheeite	$Ag_{1.5}Pb_{4.43}Sb_{6.07}S_{14}$	P21/C	104	4.700	488.846	0.702	2007	158202
Oxammite	$(NH_4)_2(C_2O_4)(H_2O)$	P21212	38	3.301	125.421	0.629	1965	64925
Oxyapatite	$Ca_{10}(PO_4)_6O$	P6-	41	3.576	146.601	0.667	1999	87727
Oxybiotite 1M	$K(Mg_{.612}Fe_{.2}Al_{.188})(Mg_{.513}Al_{.023}Fe_{.296}Ti_{.168})_2(Si_{2.84}Al_{1.09}Fe_{.07}O_{10})(O_{1.84}H_{.3}F_{.16})$	C12/C1	40	3.422	136.877	0.643	1982	41172
Oxykaersutite	$(Na_{0.54}K_{0.44})(Ca_{1.92}Mn_{0.01}Mg_{0.05}Fe_{0.02})(Mg_{2.32}Fe_{1.58}Ti_{0.62}Al_{0.49})(Al_{2.12}Si_{5.88})O_{23.31}(OH)_{0.69}$	C12/M1	40	3.672	146.877	0.690	1975	30577
Oxykinoshitalite	$(Ba_{0.47}K_{0.42}Na_{0.06}Ca_{0.01})(Mg_{1.35}Fe_{0.87}Ti_{0.75}Mn_{0.01})((Si_{2.31}Al_{1.56})O_{10})(O_{1.44}(OH)_{0.31}F_{0.25})$	C12/M1	20	2.822	56.439	0.653	2005	156627
Oxyrossmanite	$Na_{0.478}Al_9B_{3.39}Si_{5.61}(OH)_3O_{28}$	R3MH	53	3.637	192.747	0.635	2005	171829
Oxyvanite-berdesinskiite	$(V_{1.38}Cr_{0.61})(V_{0.24}Ti_{0.76})O_5$	C12/C1	16	2.250	36.000	0.563	2009	164875
p-Veatchite	$Sr_2(B_5O_8(OH))_2(B(OH)_3)(H_2O)$	P1211	70	5.129	359.050	0.837	1971	28014
Paarite	$Cu_{1.64}(Pb_{1.68}Bi_{2.32})Bi_4S_{12}$	PMCN	24	2.585	62.039	0.564	2006	156640
Pabstite	$BaZr_{.97}Ti_{.03}Si_3O_9$	P6-C2	28	2.020	56.567	0.420	1987	70105
Paceite	$CaCu(C_2H_3O_2)_4(H_2O)_6$	I4/M	120	4.007	480.827	0.580	1983	58094

Pachnolite	$CaNa(AlF_6)(H_2O)$	F1D1	48	4.585	220.078	0.821	1983	40132
Paderaite	$Cu_7(Cu_{0.32}Pb_{1.34}Bi_{11.34})S_{22}$	P121/M1	84	5.392	452.955	0.844	2006	156651
Paeaekkoenenite	$Sb_2(As_{0.84}Sb_{0.16})S_2$	C12/M1	10	2.322	23.219	0.699	1995	80831
Paganoite	$NiBiAsO_5$	P-1	16	3.000	48.000	0.750	2001	92916
Pahasapaite	$Ca_8Li_8(Be_{24}P_{24}O_{96})(H_2O)_{38}$	I23	116	3.382	392.350	0.493	1991	71430
Painite	$(Ca_{0.81}Na_{0.19})ZrB(Al_{8.82}Ti_{0.18}O_{18})$	P63/M	60	2.880	172.825	0.488	2004	55272
Palenzonaite	$(Ca_{2.3}Na_{0.7})Mn_2(As_{0.24}V_{2.46}Si_{0.3}O_{12})$	IA3-D	80	1.595	127.637	0.252	1987	67441
Palermoite	$SrLi_2(Al_4(OH)_4(PO_4)_4)$	IMCB	62	3.470	215.160	0.583	1975	4262
Palladinite	PdO	P42/MMC	4	1.000	4.000	0.500	1955	29281
Palladium	Pd	FM3-M	1	0.000	0.000	Nan	1993	41517
Palladoarsenite	Pd_2As	CMC21	12	2.585	31.020	0.721	1969	26279
Palladseite	$Pd_{17}Se_{15}$	PM3-M	64	2.377	152.147	0.396	1976	108785
Palmierite	$K_2Pb(SO_4)_2$	R3-MH	13	2.046	26.596	0.553	2001	94234
Palygorskite	$((MgAl)(Si_4O_{10}(H_2O)_2(OH)))(H_2O)_2$	C12/M1	42	3.726	156.477	0.691	2003	97694
Palygorskite	$((MgAl)(Si_4O_{10}(H_2O)_2(OH)))(H_2O)_2$	PBMN	84	3.726	312.955	0.583	2003	97695
Palygorskite M	$(Mg_2Al_2)((Si_{7.82}Al_{0.18})O_{20})O_{0.8}$	P121/A1	72	4.170	300.235	0.676	2008	159935
Panichiite	$(NH_4)_2(SnCl_6)$	FM3-M	17	1.646	27.977	0.403	2009	163660
Panunzite	$Na_{0.283}K_{0.717}(AlSiO_4)$	P63	224	5.279	1182.496	0.676	1985	30951
Paolovite	Pd_2Sn	PNMA	12	1.585	19.020	0.442	1959	42595
Papagoite	$CaCuAl(Si_2O_6)(OH)_3$	C12/M1	28	3.236	90.606	0.673	1987	68187
Parabariomicrolite	$BaTa_4O_{10}(OH)_2(H_2O)_2$	R3-MH	19	2.260	42.936	0.532	1986	40946
Parabutlerite	$Fe(SO_4)(OH)(H_2O)_2$	PMNB	72	3.614	260.235	0.586	1970	23506
Paracelsian	$Ba(Al_2Si_2O_8)$	P121/A1	52	3.700	192.423	0.649	1985	40531

Paracoquimbite	$Fe_2(SO_4)_3(H_2O)_9$	R3-H	104	4.257	442.689	0.635	1971	15211
Paracostibite	CoSbS	PBCA	24	1.585	38.039	0.346	1976	624864
Paradamite	$Zn_2(AsO_4)(OH)$	P-1	16	3.000	48.000	0.750	1980	37436
Paraershovite	$Na_{2.44}K_{2.92}Fe_2(Si_4O_{10}OH)_2(OH)_2(H_2O)_4$	P-1	55	4.800	263.975	0.830	2010	169966
Parafransoletite	$Ca_3Be_2(PO_4)_2(HPO_4)_2(H_2O)_4$	P-1	39	4.311	168.131	0.816	1992	40671
Parageorgbokiite	$Cu_5(SeO_3)_2O_2Cl_2$	P21/C	34	3.146	106.974	0.618	2007	158189
Paragonite 1M	$Na_{.91}Al_2(Si_{3.09}Al_{.91})O_{10}(OH)_2$	C12/M1	19	2.669	50.711	0.628	1977	200065
Paragonite 2M1	$NaAl_2(AlSi_3O_{10})(OH)_2$	C12/C1	42	3.440	144.477	0.638	1984	30663
Paragonite 3T	$NaAl_2(AlSi_3O_{10})(OH)_2$	P3112	60	3.522	211.316	0.596	1977	200224
Paraguanajuatite	Bi_2Se_3	R3-MH	5	1.522	7.610	0.655	1963	42545
Parahilgardite	$Ca_6(B_5O_9Cl)_3(H_2O)_3$	P1	60	5.907	354.413	1.000	1983	31206
Parahopeite	$Zn_3(PO_4)_2(H_2O)_4$	P-1	17	3.146	53.487	0.770	1969	4430
Parakeldyshite	$Na_{1.93}ZrSi_2O_{6.93}(OH)_{0.07}$	P-1	24	3.585	86.039	0.782	2007	173401
Parakhinite	$Cu_3Pb(TeO_6)(OH)_2$	P32	39	3.700	144.317	0.700	1995	81604
Paralaurionite	PbCl(OH)	C12/M1	8	2.000	16.000	0.667	1993	74291
Paralstonite	$BaCa(CO_3)_2$	P321	30	2.839	85.168	0.579	1980	100477
Paramelaconite	Cu_4O_3	I41/AMDZ	14	1.950	27.303	0.512	1996	77675
Paramontroseite	VO_2	PBNM	12	1.585	19.020	0.442	1955	22303
Paranatisite	$(Na_{3.9}Fe_{0.1})(Ti_{1.86}Fe_{0.14}O_{1.96}(OH)_{0.04})(SiO_4)_2$	PMC21	36	3.503	126.117	0.678	2002	95366
Paranatrolite	$Na_{1.95}K_{0.229}(Al_{2.25}Si_{2.75}O_{10})(H_2O)_{3.021}$	F1D1	58	4.858	281.763	0.829	2004	54890
Paraniite-(Y)	$Ca_2Y(AsO_4)(WO_4)_2$	I41/AZ	36	2.614	94.117	0.506	1992	71562
Parapierrotite	S_8Sb_5Tl	P1C1	56	4.807	269.212	0.828	1980	653689
Pararammelsbergite	$NiAs_2$	PBCA	24	1.585	38.039	0.346	1979	41729

Pararealgar	As_4S_4	P21/C	32	3.000	96.000	0.600	1995	80125
Pararobertsite	$(Ca_2(H_2O)_2)(Mn_3O_2(PO_4)_3)(H_2O)$	P21/C	124	4.986	618.320	0.717	2000	89712
Parascholzite (idealized)	$CaZn_2(PO_4)_2(H_2O)_2$	I12/C1	30	2.974	89.207	0.606	1997	40146
Parascorodite	$Fe(H_2O)_2AsO_4$	P3-C1	48	2.365	113.510	0.423	2004	171101
Parasymplesite	$Fe_3(AsO_4)_2(H_2O)_8$	C12/M1	21	2.869	60.239	0.653	1950	30646
Paratacamite	$Cu_2Cl(OH)_3$	R3-H	48	3.182	152.755	0.570	1975	1810
Paratellurite HP	TeO_2	P212121	12	1.585	19.020	0.442	1975	34423
Paratimroseite	$Pb_2Cu_4(TeO_6)_2(H_2O)_2$	P212121	44	3.459	152.215	0.634	2010	168637
Paratsepinite-Na	$Na_{2.8}Sr_{1.6}Ca_{0.8}K_{0.8}Ba_{0.1}Ti_{4.8}Nb_{3.2}(Si_4O_{12})_4O_4(OH)_4(H_2O)_{14.6}$	C12/M1	110	5.018	551.950	0.740	2004	250219
Paravauxite	$FeAl_2(PO_4)_2(OH)_2(H_2O)_8$	P-1	41	4.431	181.660	0.827	1969	24456
Paravinogradovite	$Na_{2.07}K_{0.13}Ti_{3.52}Fe_{0.48}(Al_{1.1}Be_{0.3}Si_{6.6}O_{22})(OH)_4(H_2O)_{1.17}$	P1	47	5.555	261.066	1.000	2003	55334
Parawollastonite	$Ca(SiO_3)$	P121/A1	60	3.907	234.413	0.661	1984	30884
Pargasite	$(Na_{0.63}K_{0.30})Ca_2(Mg_{0.65}Fe_{0.22}Al_{0.11}Ti_{0.02})_5(Si_{0.767}Al_{0.233})_8O_{22.22}(OH)_{.94}F_{.84}$	C12/M1	40	3.672	146.877	0.690	1973	34104
Parisite-(Ce)	$Ce_2CaF_2(CO_3)_3$	C1C1	102	5.672	578.587	0.850	2000	89803
Parisite-(Ce) R	$(CeF(CO_3))_2(Ca(CO_3))$	R3H	54	4.522	244.196	0.786	1953	27592
Parkerite	$Ni_3Bi_2S_2$	C12/M1	28	3.522	98.606	0.733	2001	93006
Parsettensite	$K_{7.5}Mn_{49}(Si_{64.5}Al_{7.5}O_{168})(OH)_{50}$	C12/M1	351	6.581	2309.820	0.778	1994	75286
Parsonsite	$Pb_2((UO_2)(PO_4)_2)$	P-1	30	3.907	117.207	0.796	2005	171056
Partheite	$Ca_2(Al_4Si_4O_{15}(OH)_2)(H_2O)_4$	C12/C1	62	3.986	247.160	0.670	1984	30918

Parvo-mangano-edenite	$(Na_{0.74}K_{0.02})(Ca_{1.27}Mn_{0.73})(Mg_{1.86}Mn_{0.12}Fe_{0.02})(Mg_{1.79}Mn_{0.15}Fe_{0.03}Ti_{0.01}Al_{0.01}Fe_{0.01})(Mg_{0.86}Al_{0.11}Fe_{0.02}Mn_{0.001})(Si_{3.07}Al_{0.93})Si_4O_{22}(OH)_2$	C12/M1	43	3.798	163.329	0.700	2006	156586
Parvo-manganotremolite	$(Na_{0.48}K_{0.01})(Ca_{1.13}Mn_{0.83})(Mg_{1.88}Mn_{0.12})(Mg_{1.87}Mn_{0.09}Fe_{0.04})(Mg_{0.94}Al_{0.06})((Si_{7.52}Al_{0.48})O_{22}(OH)_2)$	C12/M1	43	3.798	163.329	0.700	2006	156587
Parwelite	$(Mn_{4.08}Mg_{0.92})Sb(AsSiO_{12})$	A12/A1	80	4.472	357.754	0.707	1979	9782
Pasavaite	$Pd_3Pb_2Te_2$	PMMNZ	14	2.236	31.303	0.587	2009	163134
Pascoite	$Ca_3(V_{10}O_{28})(H_2O)_{17}$	C12/M1	93	4.819	448.142	0.737	2005	152222
Patronite	$V(S_2)_2$	I12/C1	20	2.322	46.439	0.537	1972	64770
Pattersonite	$PbFe_3(PO_4)_2(OH)_4((H_2O)_{0.5}(OH)_{0.5})_2$	P-1	18	3.392	61.059	0.813	2008	160474
Pauflerite	$(VO)(SO_4)$	PNMA	28	2.522	70.606	0.525	2007	158182
Paulingite	$K_6Ca_{16}(Al_{38}Si_{130}O_{336})(H_2O)_{113}$	IM3-M	1278	5.295	6766.998	0.513	1966	34452
Paulkellerite	$Bi_2Fe(PO_4)O_2(OH)_2$	C12/C1	24	2.752	66.039	0.600	1988	202598
Paulmooreite	$Pb_2(As_2O_5)$	P121/A1	36	3.170	114.117	0.613	1980	100229
Pavonite 4P	$Cu_{0.5}Pb_{1.5}Bi_{2.5}Se_{5.5}$	C12/M1	22	3.550	78.107	0.796	1990	69457
Pavonite 8P	$(Ni_{0.5}Zn_{0.5})Al_4(VO_3)_2(OH)_{12}(H_2O)_2$	C12/M1	86	4.450	382.659	0.692	1990	69459
Pavonite-(Se) 6P	$Cu_{0.22}Ag_{0.88}Pb_{0.9}Bi_{3.5}S_{6.5}$	C12/M1	26	3.777	98.211	0.804	1990	69458
Pearceite	$Ag_{12.21}Cu_{3.79}As_{1.194}Sb_{0.806}S_{11}$	P3-M1	37	2.627	97.201	0.504	2006	171687
Pearceite. antimonian	$(Ag_{14.69}Cu_{1.31})(S_{8.37}Se_{2.63})Sb_2$	P21/C	116	4.858	563.526	0.708	2006	249125
Pearcite-M2a2b2c	$(Ag_{14.89}Cu_{1.11})(As_{1.88}Sb_{0.12})S_{11}$	C12/C1	232	5.875	1363.052	0.748	2007	156783
Pearcite-T2ac	$Ag_{14.52}Cu_{1.48}As_2S_{11}$	P321	116	4.451	516.350	0.649	2007	156782
Pectolite 1A	$K(Al_{1.5}Mg_{.5})(Si_{3.5}Al_{.5})O_{10}(OH)_2$	P-1	38	3.301	125.421	0.629	1977	34920
Pekoite	$Cu_{0.7}Pb_{0.7}Bi_{11.3}(S_{0.83}Se_{0.17})_{18}$	P21AM	62	4.954	307.160	0.832	1976	60151
Pekovite	$Sr(B_2Si_2O_8)$	PNMA	52	2.931	152.423	0.514	2004	98904

Pellouxite	$Cu_{0.68}Ag_{0.26}Pb_{10.44}Sb_{11.56}S_{27.5}Cl_{0.5}O_{0.5}$	C12/M1	104	5.700	592.846	0.851	2004	171096
Pellyite	$Ba_2Ca_{1.02}Fe_{1.47}Mg_{.21}Zn_{.13}Mn_{.19}Al_{.05}Si_{5.9}O_{17}$	CMCM	56	3.307	185.212	0.570	1976	12135
Penfieldite	$Pb_2Cl_3(OH)$	P6-	18	2.585	46.529	0.620	1995	81086
Pengzhizhongite 6H	$Mg_2(Zn_{0.68}Fe_{0.26}Al_{1.06})(Sn_{1.21}Fe_{0.79})Al_{9.71}O_{22}(OH)_2$	P3-M1	40	3.352	134.083	0.630	1989	89264
Penkvilskite 1M	$Na_4Ti_2(Si_8O_{22})(H_2O)_4$	P21/C	48	3.668	176.078	0.657	1994	75931
Penkvilskite 2O	$Na_4(Ti_{1.8}Zr_{0.2})(Si_8O_{22})(H_2O)_4$	PNCA	96	3.668	352.156	0.557	1994	75932
Penobsquisite	$Ca_2(Fe_{0.67}Mg_{0.33})(B_9O_{13}(OH)_6)Cl(H_2O)_4$	P1211	100	5.644	564.386	0.849	1996	82484
Penroseite	$NiSe_2$	PA3-	12	0.918	11.020	0.256	1969	40330
Pentagonite	$Ca(VO)(Si_4O_{10})(H_2O)_4$	CCM21	42	3.630	152.477	0.673	1973	10262
Pentahydrite. cuprian	$(Mg_{.4}Cu_{.6})SO_4(H_2O)_5$	P-1	22	3.550	78.107	0.796	2006	172628
Pentahydroborite	$Ca(B_2O(OH)_6)(H_2O)_2$	P-1	44	4.459	196.215	0.817	1977	200083
Pentlandite	$(Ni_{4.25}Fe_{4.75})S_8$	FM3-M	17	1.646	27.977	0.403	2006	156574
Peprosiite-(Ce)	$(La_{0.785}Th_{0.215})(Al_3O)_{0.6667}B_4O_{10}$	P6-2M	19	2.339	44.446	0.551	2000	89818
Percleveite-(Ce)	$(Ce_{0.87}La_{0.41}Nd_{0.35}Y_{0.12}Pr_{0.09}Sm_{0.07}Gd_{0.06}Dy_{0.01}Ca_{0.01})(Si_2O_7)$	P41	88	4.459	392.430	0.690	2003	98206
Peretaite	$CaSb_4O_4(OH)_2(SO_4)_2(H_2O)_2$	C12/C1	58	3.892	225.763	0.664	1980	100339
Perhamite	$Ca_{3.212}Al_{7.7}Si_{3.06}P_4O_{22.808}(OH)_{14.96}(H_2O)_8$	P3-M1	68	3.958	269.114	0.650	2006	155812
Periclase	MgO	FM3-M	2	1.000	2.000	1.000	1979	9863
Perite	$PbBiO_2Cl$	BMMB	10	1.922	19.219	0.579	1960	31861
Perlialite	$K_{7.56}Tl_{3.8}(Al_{12}Si_{24}O_{72})(H_2O)_{22.46}$	P6/MMM	163	3.790	617.834	0.516	1990	69403
Permingeatite	$Cu_3(SbSe_4)$	I4-2M	8	1.750	14.000	0.583	1994	400652
Perovskite	$Ca(TiO_3)$	PBNM	20	1.922	38.439	0.445	2010	167888
Perraultite	$(Na_{1.5}Ca_{0.5})(Ba_{1.25}K_{0.6})(Mn_{4.7}Zr_{0.15}Fe_{0.05})Fe_3Ti_2(Ti_{0.92}Nb_{0.08})_2(Si_8O_{32})(OH)_4F_2$	C121	124	6.003	744.320	0.863	1998	87533

Perrierite-(Ce)	$(Ce_3Ca)Fe(TiAl)(Ti_2(Si_{3.6}Al_{.4})O_{22})$	C12/M1	35	3.815	133.525	0.744	1960	43798
Perrierite-(La)	$Mg_2La_4Ti_3Si_4O_{22}$	P121/A1	70	4.158	291.050	0.678	1974	8135
Perroudite	$Hg_5Ag_4S_5(IBr)Cl_2$	P21212	36	3.281	118.117	0.635	2005	153577
Perryite	$(Ni_{0.97}Fe_{0.03})_8(Si_{0.79}P_{0.21})_3$	R3-CH	44	2.561	112.666	0.469	1994	74516
Pertlikite	$K_2(Fe_{1.44}Mg_{0.56})(Mg_{2.97}Fe_{1.03})Fe_2Al(SO_4)_{12}(H_2O)_{18.25}$	I41/ACDZ	396	4.710	1865.225	0.546	2008	161276
Pertsevite	$Mg_2(BO_3)_{0.778}(SiO_4)_{0.257}((OH)_{0.345}F_{0.3})$	PNMA	120	4.174	500.827	0.604	2008	161810
Petalite 1M	$Li(AlSi_4O_{10})$	P12/A1	32	3.250	104.000	0.650	1980	100348
Petarasite	$Na_5Zr_2(Si_6O_{18})Cl(H_2O)_2$	C12/M1	34	3.440	116.974	0.676	1981	20150
Petedunnite	$CaZn(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	2005	158143
Petersenite-(Ce)	$Na_4Ce_2(CO_3)_5$	P1211	104	5.700	592.846	0.851	1994	79144
Petewilliamsite	$(Ni_{15.45}Co_{14.55})(As_2O_7)_{15}$	C121	165	6.385	1053.443	0.867	2004	151492
Petzite	Ag_3AuTe_2	I4132	24	1.459	35.020	0.318	1978	604788
Pezzottaite	$CsBe_2Li(Al_2Si_6O_{18})(H_2O)$	R3CH	186	5.056	940.500	0.671	2008	164087
Pezzottaite	$Cs_{0.75}Na_{0.23}(H_2O)_{0.24}(Al_2(Be_2Li)Si_6O_{18})$	R3-CH	186	4.175	776.500	0.554	2009	173862
Pharmacolite	$Ca(HAsO_4)(H_2O)_2$	I1A1	26	3.700	96.211	0.787	1971	9062
Pharmacosiderite	$Fe_4H(OH)_4(AsO_4)_3(H_2O)_5$	P4-3M	30	2.356	70.677	0.480	1967	27302
Phaunouxite	$In(OH)_3$	P-1	40	1.895	75.818	0.356	1983	35637
Phenakite	$Be_2(SiO_4)$	R3-H	42	2.807	117.909	0.521	1971	28003
Phengite 2M1	$NaCa_4(Si_8O_{20})F(H_2O)_8$	C12/C1	116	3.996	463.526	0.583	1971	34881
Phengite 3T	$KAl(Al_{0.36}Mg_{0.64})(Al_{0.214}Si_{0.786})_2Si_2O_{10}(OH)_2$	P3112	63	3.535	222.716	0.591	1997	83818
Phengite-(Li.Fe) 1M	$K_{.9}(Li_{.20}Fe_{.92}Al_{1.2})(Al_{.82}Si_{3.18}O_{10})(OH)_2$	C121	22	3.641	80.107	0.817	1983	40148
Phillipsite	$Ca_{1.64}K_2(Si_{10.67}Al_{5.33}O_{32})(H_2O)_{12}$	P121/M1	66	4.257	280.930	0.704	1974	2317
Phillipsite	$Na_4K(Al_5Si_{11}O_{32})(H_2O)_{10}$	B2MB	70	4.386	307.050	0.716	1962	23902

Phillipsite	$(Na_{0.205}Ca_{0.39}K_{0.61})((Al_{1.6}Si_{2.4})O_8)(H_2O)_{2.565}$	P121/M1	66	4.257	280.930	0.704	2000	90139
Philolithite	$Pb_{12}O_6Mn(Mg_{0.54}Mn_{0.46})_2(Mn_{0.68}Mg_{0.32})_4(SO_4)(CO_3)_4Cl_4(OH)_{12}$	P42/NNMZ	124	3.825	474.320	0.550	2000	89834
Phlogopite 1M	$K_2Mg_6(Al_2Si_6O_{20})(OH)_4$	C12/M1	22	3.005	66.107	0.674	1974	4375
Phlogopite 2M1	$KMg_3Al(Si_3O_{10})(OH)F$	C12/C1	40	3.422	136.877	0.643	1939	24164
Phlogopite 2O	$(K_{0.97}Na_{0.03})(Mg_2Fe_{0.33}Li_{0.67})(Si_{3.4}Al_{0.6}O_{10})((OH)_{1.2}F_{0.8})$	CCMM	44	3.005	132.215	0.550	2001	93991
Phlogopite 3T	$KMg_3Al(Si_3O_{10})(OH)F$	P3112	60	3.522	211.316	0.596	1939	24165
Phoenicochroite	$(PbO)(Pb(CrO_4))$	C12/M1	16	2.750	44.000	0.688	1984	29269
Phosgenite	$Pb_2Cl_2(CO_3)$	P4/MBM	32	2.500	80.000	0.500	1974	4240
Phosinaite	$Na_{11}(NaCa)Ca_2Ce_{.67}(SiPO_7)_4$	P21212	104	4.816	500.846	0.719	1981	20412
Phosinaite (Ce)	$Na_{11}(Na_{0.66}Ca_{0.34})_2Ca_2Ce_{0.84}(SiO_3)_4(PO_4)_4$	P22121	104	4.816	500.846	0.719	1996	82476
Phosphammite	$(NH_4)_2(HPO_4)$	P21/C	64	4.000	256.000	0.667	1972	2799
Phosphoellenbergerite	$Mg_{14}(PO_4)_6((HPO_4)_{1.24}(CO_3)_{0.76})(OH)_6$	P63MC	66	3.240	213.832	0.536	1998	54146
Phosphoferrite	$Fe_3(PO_4)_2(H_2O)_3$	PBNA	88	3.550	312.430	0.550	1976	302
Phosphohedyphane	$(Ca_{1.838}Pb_{0.162})Pb_3(P_{0.907}As_{0.093}O_4)_3Cl$	P63/M	42	2.653	111.419	0.492	2006	156171
Phosphophyllite	$Zn_2Fe(PO_4)_2(D_2O)_4$	P21/C	50	3.684	184.193	0.653	1992	67696
Phosphosiderite	$Fe(PO_4)(H_2O)_2$	P121/N1	32	3.000	96.000	0.600	1966	34007
Phosphovanadylite	$(Ba_{0.28}Ca_{0.107}K_{0.06})((V_{3.48}Al_{0.52})P_2O_{10.314}(OH)_{5.686})(H_2O)_{8.626}$	I4-3M	94	2.846	267.485	0.434	1998	85556
Phosphuranylite	$KCa(H_3O)_3(UO_2)_7(PO_4)_4O_4(H_2O)_8$	CMCM	118	4.357	514.152	0.633	1991	40010
Phuralumite	$Al_2((OH)_2(PO_4)_2(UO_2)_3)(OH)_4(H_2O)_{10}$	P121/A1	148	5.209	770.999	0.723	1979	8187
Phurcalite	$Ca_2(UO_2)_3O_2(PO_4)_2(H_2O)_7$	PBCA	240	4.907	1177.654	0.621	1991	63714
Pickeringite	$(Mg_{0.93}Mn_{0.07})Al_2(SO_4)_4(H_2O)_{22}$	P21/C	180	5.492	988.534	0.733	2000	90028

Picotpaulite	$Tl(Fe_2S_3)$	CMCM	12	1.918	23.020	0.535	2008	166049
Picromerite	$MgK_2(SO_4)_2(H_2O)_6$	P121/A1	62	3.986	247.160	0.670	1965	26772
Picropharmacolite	$Ca_4Mg(HAsO_4)_2(AsO_4)_2(H_2O)_{11}$	P-1	72	5.170	372.235	0.838	1981	100730
Piemontite	$Ca_2(Al_{2.5}Mn_{0.5})(SiO_4)_3(OH)$	P121/M1	42	4.107	172.477	0.762	2004	55238
Piergorite-(Ce)	$Ca_{8.6}Ce_{1.1}Th_{0.3}(Al_{0.49}Fe_{0.35}Ti_{0.16})(Li_{0.3}Be_{0.54})Si_6B_8O_{36}((OH)_{1.76}F_{0.24})$	P12/A1	130	5.069	658.908	0.722	2006	156527
Pierrotite	$Tl_2(Sb_6As_4)S_{16}$	PNA21	112	4.807	538.424	0.706	1983	31358
Piezotite	$Al_3(Si_2O_7)(OH)_3$	P-1	36	4.170	150.117	0.807	1967	61331
Pigeonite	$(Mg_{0.93}Fe_{0.83}Mn_{0.027}Ca_{0.195})(Si_2O_6)$	P21/C	40	3.322	132.877	0.624	2002	158518
Pigeonite	$(Mg_{0.93}Fe_{0.83}Mn_{0.027}Ca_{0.195})(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	2002	158522
Pillaite	$Pb_{9.167}Sb_{9.833}S_{23}ClO_{0.5}$	C12/M1	88	5.459	480.430	0.845	2001	93002
Pilsenite	Bi_4Te_3	R3-MH	7	1.950	13.651	0.695	1979	30526
Pinakiolite	$Mg_{1.9}Mn_{0.91}Sb_{0.19}O_2(BO_3)$	C12/M1	38	3.985	151.421	0.759	1990	33723
Pinalite	$Pb_3(WO_5)Cl_2$	AMAM	22	2.550	56.107	0.572	2000	89833
Pinchite	$Hg_5Cl_2O_4$	IBAM	22	2.187	48.107	0.490	1994	75935
Pinnoite	$Mg(B_2O(OH)_6)$	P42	64	4.063	260.000	0.677	1983	20662
Pirssonite	$CaNa_2(CO_3)_2(H_2O)_2$	FDD2	34	3.146	106.974	0.618	1967	15345
Pitiglianoite	$K_9Na_{15}(AlSiO_4)_{18}(OH)_2(SO_4)_2(H_2O)_{6.82}$	P63	160	4.777	764.254	0.652	1977	1021
Pizgrischite	$(Cu_{0.77}Fe_{0.23})Cu_{14}PbBi_{17}S_{35}$	C12/M1	136	6.087	827.895	0.859	2007	158481
Plagionite	$Pb_5(Sb_8S_{17})$	C12/C1	60	3.974	238.413	0.673	1974	159325
Plancheite	$Cu_8(Si_4O_{11})_2(OH)_4(H_2O)_{.43}$	PCNB	172	4.450	765.318	0.599	1977	100073
Platarsite	$(Pt_{0.4}Rh_{0.3}Ru_{0.3})AsS$	PA3-	12	0.918	11.020	0.256	1979	38427
Platiniridium	$Ir_{.83}Pt_{.17}$	FM3-M	1	0.000	0.000	Nan	1974	40348

Platinum	Pt	FM3-M	1	0.000	0.000	Nan	1968	77944
Plattnerite	PbO_2	P42/MNM	6	0.918	5.510	0.355	1980	23292
Plazolite	$Ca_3Al_2(SiO_4)_{1.53}(OH)_{5.88}$	IA3-D	128	1.952	249.804	0.279	1983	31250
Plimerite	$(Zn_{1.162}Fe_{3.657}Al_{0.116})(PO_4)_3(OH)_5$	BBMM	46	3.306	152.084	0.599	2009	166775
Plumboferrite 5H. manganoan	$Pb_2Fe_{11}O_{18.33}$	P63/MMC	72	3.092	222.647	0.501	1995	77362
Plumbogummite	$PbAl_3((P_{0.95}As_{0.05})O_4)_2((OH)_5(H_2O))$	R3-MH	25	2.432	60.812	0.524	1999	87868
Plumbojarosite	$Cu_{1.1}Ag_{2.1}Pb_{0.90}Bi_{14.38}S_{22}$	R3-MH	22	3.550	78.107	0.796	2010	169962
Plumbomicrolite	$Pb(Ta_2O_6)(H_2O)$	FD3-MZ	20	1.371	27.419	0.317	1975	45821
Plumbonacrite	$Pb_5(CO_3)_3O(OH)_2$	P63CM	120	4.206	504.670	0.609	2000	58097
Plumbopalladinite	$(Pb_{0.41}Pd_{0.59})$	P63/MMC	4	1.000	4.000	0.500	1980	105592
Plumbophyllite	$Pb_2(Si_4O_{10})(H_2O)$	PBCN	72	3.170	228.235	0.514	2009	164669
Plumbopyrochlore	$Pb(Nb_2O_6)(H_2O)$	FD3-MZ	20	1.371	27.419	0.317	1975	45816
Podlesnoite	$BaCa_2(CO_3)_2F_2$	CMCM	26	2.470	64.211	0.525	2007	245746
Poitevinite	$(Cu_{0.47}Fe_{0.53})(SO_4)(H_2O)$	P-1	14	2.950	41.303	0.775	1994	79163
Pokrovskite	$Mg_2(CO_3)(OH)_2$	P121/A1	32	3.000	96.000	0.600	2006	156818
Polarite	$BiPbPd_2$	CMC21	16	2.500	40.000	0.625	1979	56278
Poldervaartite	$Ca(Ca_{0.67}Mn_{0.33})(HSiO_4)(OH)$	PBCA	80	3.322	265.754	0.525	1993	74005
Polkanovite	$Rh_{12}As_7$	P63/M	20	1.895	37.909	0.439	1985	61404
Pollucite	$Cs(AlSi_2O_6)$	IA3-D	80	1.295	103.637	0.205	1997	84321
Pollucite	$Cs(AlSi_2O_6)$	I41/ACDS	80	2.522	201.754	0.399	1997	84322
Polyakovite-(Ce)	$(Ce_{1.86}La_{1.23}Nd_{0.35}Pr_{0.15}Sm_{0.01}Y_{0.04}Ca_{0.24}Th_{0.12})(Mg_{0.8}Fe_{0.2})(Cr_{1.28}Fe_{0.72})(Ti_{1.52}Nb_{0.32})Si_4O_{22}$	C12/M1	35	3.872	135.525	0.755	2001	92799
Polybasite	$(Ag_6(Sb_{1.9}As_{0.1})S_7)(Ag_9(Ag_{0.5}Cu_{0.5})S_4)$	C12/C1	232	5.875	1363.052	0.748	2009	162322

Polybasite-Tac	$Ag_{12.96}Cu_{3.04}(Sb_{1.85}As_{0.15})S_{11}$	P3-M1	31	2.759	85.541	0.557	2007	156781
Polycrase-(Y) (heat treated)	$(Y_{0.50}Dy_{0.25}Th_{0.157}U_{0.056}Ca_{0.012})(Ti_{1.605}Nb_{0.335}Ta_{0.05}W_{0.014}Fe_{0.018})O_{5.72}(OH)_{0.28}$	PBCN	36	2.281	82.117	0.441	2002	94851
Polydymite	Ni_3S_4	FD3-MZ	14	1.379	19.303	0.362	1985	601828
Polyhalite	$K_2Ca_2Mg(SO_4)_4(H_2O)_2$	F1-	27	3.792	102.382	0.797	1970	6304
Polymignite	$Ca_{1.0586}Na_{0.0894}Ce_{0.8174}Th_{0.0346}Nb_{0.7066}Ta_{0.0204}Zr_2Ti_{2.273}Fe_{0.982}O_{13.49}(OH)_{0.51}$	ACAM	44	3.187	140.215	0.584	1983	31197
Polyphite	$(Na_{8.74}Ca_{1.4}Mn_{0.66}Sr_{0.03}Mg_{0.17})(Ti_{1.41}Nb_{0.19}Mn_{0.02}Zr_{0.185}Fe_{0.065}Mg_{0.13})(PO_4)_3(Si_2O_7)O_2F_2$	P-1	82	5.358	439.319	0.843	2005	156659
Ponomarevite	$(K_{3.41}Na_{0.59})Cu_4OCl_{10}$	C12/C1	38	3.406	129.421	0.649	1989	166588
Poppiite	$(Ca_{1.92}Na_{0.08})(V_{2.04}Al_{0.34}Mg_{0.20}Mn_{0.15}Fe_{0.26}Cu_{0.01}Ti_{0.02})((Si_{2.91}Al_{0.09})O_{10}(OH)_4)$	C12/M1	52	4.393	228.423	0.771	2006	156599
Portlandite	$Ca(OH)_2$	P3-M1	5	1.522	7.610	0.655	1987	202231
Posnjakite	$Cu_4(SO_4)(OH)_6(H_2O)$	P1A1	46	4.524	208.084	0.819	1979	100276
Potarite	HgPd	P4/MMM	2	1.000	2.000	1.000	1960	40322
Potassic-ferrisadanagaite	$(K_{0.62}Na_{0.32})(Ca_{1.72}Na_{0.28})(Mg_{0.68}Fe_{3.11}Al_{0.72}Ti_{0.21}Mn_{0.26}Zn_{0.02})((Si_{5.1}Al_{2.9})O_{22})((OH)_{1.7}F_{0.3})$	C12/M1	43	3.798	163.329	0.700	2008	160002
Potassicarfvedsonite	$(K_{0.67}Na_{0.22})Na_2(Fe_{4.46}Li_{0.28}Mn_{0.2}Ti_{0.06})Si_8O_{22}((OH)_{1.8}F_{0.2})$	C12/M1	43	3.798	163.329	0.700	2004	151565
Potassicpargasite (Ti-bearing)	$(K_{0.54}Na_{0.44})(Ca_{1.99}Na_{0.01})(Mg_{2.66}Fe_{1.63}Al_{0.59}Ti_{0.10}Mn_{0.02})(Si_{6.26}Al_{1.74})O_{22}((OH)_{0.90}F_{0.85}O_{0.25})$	C12/M1	41	3.699	151.660	0.690	1997	84631
Potassioferrite beta (Cd-bearing)	$K_{1.42}Cd_{0.48}Fe_{10.52}O_{17}(H_2O)_{0.33}$	P63/MMC	58	2.978	172.704	0.508	2000	92244
Potassioferrite beta' (Ba.Na.Mg-bearing)	$K_{0.294}Na_{0.62}Ba_{0.62}Mg_{0.29}Fe_{10.44}O_{17}$	R3-MH	30	3.023	90.677	0.616	2000	92251
Potassium-alum	$KAl(SO_4)_2(H_2O)_{12}$	PA3-	192	3.240	622.039	0.427	2000	280548

Poubaite	Bi_3Se_4	R3-MH	7	1.950	13.651	0.695	1955	20386
Poudretteite	$KNa_2(B_3Si_{12}O_{30})$	P6/MCC	96	2.432	233.510	0.369	1987	202480
Poughite	$Fe_2(TeO_3)_2(SO_4)(H_2O)_3$	P21NB	72	4.170	300.235	0.676	1971	34597
Povondraite	$NaFe_9(BO_3)_3(Si_6O_{18})(O(OH))_2$	R3MH	53	3.637	192.747	0.635	1993	72941
Powellite	$Ca(MoO_4)$	I41/AS	12	1.252	15.020	0.349	1968	22351
Poyarkovite	Hg_3OCl	C12/C1	60	3.907	234.413	0.661	1999	87734
Prehnite	$Ca_2Al(AlSi_3O_{10})(OH)_2$	PNCM	30	2.707	81.207	0.552	2009	164247
Preisingerite	$Bi_3(AsO_4)_2O(OH)$	P-1	30	3.907	117.207	0.796	1982	31179
Preiswerkite 1M	$Na_{0.85}(Mg_{1.65}Fe_{0.2}Al_{1.15})(Al_2Si_2O_{10})(OH)_2$	C12/M1	22	3.005	66.107	0.674	1993	74010
Preobrazhenskite	$Mg_3(B_{11}O_{15}(OH)_9)$	PBCN	188	4.618	868.263	0.611	1994	79143
Pretulite	$(Sc_{0.96}Y_{0.04})PO_4$	I41/AMDZ	12	1.252	15.020	0.349	1998	85552
Priceite	$Ca_2(B_5O_7)(OH)_5(H_2O)$	P21/C	80	4.322	345.754	0.684	2002	95360
Priderite	$K_{1.67}(Zn_{0.8}Ti_{7.2})O_{16}$	I4/M	13	1.854	24.106	0.501	2006	155254
Pringleite	$Ca_9B_{26}O_{34}(OH)_{24}Cl_4(H_2O)_{13}$	P1	138	7.109	980.976	1.000	1995	76888
Probertite	$CaNa(B_5O_7(OH)_4)(H_2O)_3$	P21/C	40	3.322	132.877	0.624	1982	35188
Prosopite	$Ca(Al_2F_4(OH)_4)$	C12/C1	22	2.732	60.107	0.613	1973	23030
Prosperite	$Ca_2Zn_4(AsO_4)_4(H_2O)$	C12/C1	54	3.792	204.764	0.659	1982	17034
Protasite	$Ba(UO_2)_3O_3(OH)_2(H_2O)_3$	P1N1	36	4.170	150.117	0.807	1987	202479
Proto-anthophyllite	$(Mg_{6.378}Fe_{0.622})Na_{0.048}((Si_{7.960}Al_{0.048})O_{22}(OH)_2)$	PNMN	100	3.964	396.386	0.597	2003	98791
Protoenstatite	$Mg(SiO_3)$	PBCN	40	2.522	100.877	0.474	1959	26489
Protomangano-ferro-anthophyllite	$(Mn_{1.44}Fe_{0.56})(Fe_{3.92}Mg_{1.08})Si_8O_{22}(OH)_2$	PNMN	74	3.588	265.500	0.578	2010	168840
Proudite	$Cu_2Bi_{20}Pb_{16}(S_{28.58}Se_{18.42})$	C12/M1	85	5.421	460.798	0.846	2009	163135

Proustite	$Ag_3(AsS_3)$	R3CH	14	1.449	20.283	0.381	2009	419205
Pseudo-eucryptite	$Li(AlSiO_4)$	P6422	84	3.307	277.818	0.517	1972	2929
Pseudoboleite	$Pb_{31}Cu_{24}Cl_{62}(OH)_{48}$	I4/MMM	218	4.640	1011.464	0.597	1992	67680
Pseudobrookite. ferrous	$FeTi_2O_5$	BBMM	16	2.250	36.000	0.563	1999	88379
Pseudojohannite	$Cu_{6.5}((UO_2)_4O_4(SO_4)_2)_2(OH)_5(H_2O)_{25}$	I1	6	2.585	15.510	1.000	2006	156178
Pseudolaueite	$MnFe_2(PO_4)_2(OH)_2(H_2O)_8$	P121/A1	46	3.567	164.084	0.646	1969	15205
Pseudomalachite	$Cu_5(PO_4)_2(OH)_4$	P21/C	38	3.301	125.421	0.629	1977	10418
Pseudorutile	$(Fe_{9.48}Mn_{.54}Ti_{19.32})O_{50}$	P6322	100	3.642	364.229	0.548	1975	4131
Pseudorutile. hydroxylian	$Ti_{2.91}(Ti_{2.96}Fe_{1.04})(O_{10.6}(OH)_{5.4})$	P21/C	24	2.585	62.039	0.564	2010	166083
Pseudowollastonite	$Ca_3(SiO_3)_3$	C12/C1	60	4.040	242.413	0.684	1999	87716
Pseudowollastonite 4A	$Ca_3(Si_3O_9)$	C1-	60	4.940	296.413	0.836	1981	26553
Pucherite	$BiVO_4$	PNCA	24	1.918	46.039	0.418	1986	70118
Pumpellyite	$Ca_8(Mg_{1.92}Cr_{1.28}Al_{0.8})(Al_{5.52}Cr_{2.48})Si_{12}O_{42.12}(OH)_{13.88}$	A12/M1	44	4.096	180.215	0.750	2007	158187
Pumpellyite-(Mg.Mg.Al)	$Mg_8(Mg_{1.52}Al_{2.02})Al_8Si_{12}O_{41.1}(OH)_{14.9}$	P121/M1	92	5.176	476.168	0.793	1999	87695
Punkaruaivite	$LiTi_2(Si_4O_{11}(OH))(OH)_2(H_2O)$	C12/C1	42	3.440	144.477	0.638	2010	166996
Purpurite	$(Mn_{0.65}Fe_{0.35})(PO_4)$	PBNM	24	2.252	54.039	0.491	1938	38210
Pushcharovskite	$Cu(AsO_3OH)(H_2O)$	P-1	238	6.895	1640.967	0.873	2000	411236
Putzite	$Cu_{4.68}Ag_{3.48}GeS_6$	F4-3M	13	1.892	24.596	0.511	2004	171972
Pyatenkoite-(Y)	$Na_5(Y_{0.5}Dy_{0.3}Gd_{0.2})(Ti_{0.8}Nb_{0.2})(Si_6O_{18})(H_2O)_6$	R32H	49	3.384	165.797	0.603	1996	83238
Pyracmonite	$((NH_4)_{2.6}K_{0.4})(Fe_{0.89}Al_{0.11})(SO_4)_3$	R3CH	62	3.420	212.062	0.574	2010	169964
Pyrargyrite	Ag_3SbS_3	R3CH	14	1.449	20.283	0.381	1966	64986
Pyrite	FeS_2	PA3-	12	0.918	11.020	0.256	1976	316
Pyroaurite	$Mg_6Fe_2(OH)_{16}(CO_3)(H_2O)_{4.5}$	R3-MH	65	3.482	226.356	0.578	1995	80876

Pyrobelonite	$PbMn(VO_4)(OH)$	PNMA	36	2.948	106.117	0.570	2001	280786
Pyrochlore	$(Na_{5.06}Ca_{9.35}Sr_{0.096}Mn_{0.016}Ce_{1.38}La_{0.21}Nd_{0.19}Y_{0.032})(Nb_{12.7}Ta_{0.11}Ti_{2.24}Zr_{0.16}Sn_{0.048}Fe_{0.59})O_{49.04}(OH)_{0.61}F_{6.37}$	FD3-MS	22	1.686	37.088	0.378	1968	27816
Pyrochroite	$Mn(OH)_2$	P3-M1	5	1.522	7.610	0.655	1972	23591
Pyrolusite	MnO_2	P42/MNM	6	0.918	5.510	0.355	1976	393
Pyromorphite	$Pb_5(PO_4)_3Cl$	P63/M	42	2.653	111.419	0.492	1989	203075
Pyrope	$Mg_3Al_2(SiO_4)_3$	IA3-D	80	1.595	127.637	0.252	1996	77426
Pyrophanite	$Mn(TiO_3)$	R3-H	10	1.371	13.710	0.413	1984	60006
Pyrophanite HP	$Mn(TiO_3)$	R3CH	10	1.371	13.710	0.413	1988	65359
Pyrophyllite (subcell)	$(Al_4Si_8O_{20}(OH)_4)_{0.3333}$	C12/M1	7	1.950	13.651	0.695	1966	26921
Pyrophyllite 1A	$Al_2(Si_4O_{10})(OH)_2$	C1-	18	3.170	57.059	0.760	1972	30118
Pyrosmalite-(Mn) (Fe-rich)	$Fe_7Mn_9(Si_{12}O_{30}(OH)_{17})Cl_3$	P3-M1	78	3.505	273.389	0.558	1983	64828
Pyrostilpnite	$Ag_3(SbS_3)$	P21/C	28	2.807	78.606	0.584	1968	33714
Pyroxmangite	$(Mn_{0.915}Fe_{0.0021}Mg_{0.083})(SiO_3)$	C1-	70	5.129	359.050	0.837	2008	161983
Pyrrhotite 1T (subcell)	$Fe_{0.95}S_{1.05}$	P63/MMC	4	1.000	4.000	0.500	1925	29300
Pyrrhotite 3T	Fe_7S_8	P3121	48	3.250	156.000	0.582	1982	37166
Pyrrhotite 4C	Fe_7S_8	C12/C1	30	2.974	89.207	0.606	2004	151766
Pyrrhotite 5.5C	$Fe_{0.91}S$	CCMM	4	1.000	4.000	0.500	1982	32651
Pyrrhotite 5C	$(Fe_{8.79}Ni_{0.118})S_{10}$	CMCE	78	3.901	304.261	0.621	2009	165145
Pyrrhotite 6C	$Fe_{11}S_{12}$	C1C1	48	4.585	220.078	0.821	2010	166063
Pyrrhotite high	Fe_3O_4	PNMA	56	4.379	245.212	0.754	1982	35003
Pyrrhotite high	$Fe_{0.985}S$	P63MC	16	1.811	28.980	0.453	1990	68853
Qandilite	$Mg_2(TiO_4)$	FD3-MZ	14	1.379	19.303	0.362	2003	96857

Qaqarssukite-(Ce)	$BaCe(CO_3)_2F$	P3-C1	66	2.899	191.342	0.480	2006	156206
Qingheiite	$NaMn_3(Na_{1.63}Ca_{0.155})(Mg_{1.9}Mn_{0.1})(Al_{0.83}Fe_{0.78}Mg_{0.38})(PO_4)_6$	P121/N1	80	4.372	349.754	0.692	1983	89319
Qingheiite-(Fe(2+))	$(Na_{0.18}Mn_{0.15}Ca_{0.02})(Na_{0.50}Mn_{0.50})(Fe_{0.68}Na_{0.25}Mn_{0.07})(Al_{0.62}Mg_{0.28}Fe_{0.10})(Mg_{0.44}Fe_{0.56})(PO_4)_3$	P121/N1	80	4.372	349.754	0.692	2010	168541
Qitianlingite	$(Fe_{1.3446}Mn_{.5588}Sn_{.0159}Nb_{.0807})(W_{.9189}Nb_{.063})(Nb_{1.5471}Ta_{.3509}Ti_{.1020})O_{10}$	PBCN	60	2.974	178.413	0.503	1988	65617
Quadridavyne	$(Na_{5.03}K_{0.98}Cl_{1.62})(Ca_2Cl_2)(Si_6Al_6O_{24})$	P63/M	190	4.766	905.470	0.630	1994	64812
Quadruphite	$(Ti_{2.55}Nb_{0.44}Zr_{0.47}Mn_{0.44}Fe_{0.1})(Na_{1.59}Mg_{0.5}Ca_{1.44}Mn_{0.41}Sr_{0.06})Na_{12}(PO_4)_4(Si_2O_7)_2O_4F_2$	P1	64	6.000	384.000	1.000	2001	166506
Quartz	SiO_2	P3121	9	0.918	8.265	0.290	1992	79635
Quartz high	SiO_2	P6222	9	0.918	8.265	0.290	1981	26430
Queitite	$Pb_4Zn_2((SO_4)(SiO_4)(Si_2O_7))$	P1211	50	4.644	232.193	0.823	1980	100296
Quenselite	$PbMnO_2(OH)$	P12/A1	20	2.522	50.439	0.584	1971	15234
Quenstedtite	$Fe_2(SO_4)_3(H_2O)_{11}$	P-1	56	4.807	269.212	0.828	1974	6223
Quetzalcoatlite	$Zn_6Cu_3(Ag_{0.24}Pb_{0.3})(TeO_3)_2O_6(OH)_6Cl_{0.84}$	P3-1M	31	2.348	72.786	0.474	2000	89821
Quintinite 2H	$Al_2Mg_4(OH)_{12}(CO_3)(H_2O)_3$	P6-2M	37	3.005	111.201	0.577	1996	82874
Raadeite	$Mg_7(PO_4)_2(OH)_8$	P121/N1	66	4.075	268.930	0.674	2001	92918
Radovanite	$Cu_2Fe(AsO_4)(AsO_2(OH))_2(H_2O)$	PNMA	68	3.382	229.947	0.555	2002	97623
Radtkeite	Hg_3S_2ClI	C12/M1	28	3.379	94.606	0.703	2004	98907
Raguinite	$TlFeS_2$	C12/M1	8	2.000	16.000	0.667	1989	63381
Raite	$Na_3Mn_3Ti_{0.25}(Si_2O_5)_4(OH)_2(H_2O)_{10}$	C12/M1	48	3.960	190.078	0.709	1999	88884
Rajite	$Cu(Te_2O_5)$	P21/C	32	3.000	96.000	0.600	1973	2542
Ralstonite	$Na_{0.41}Mg_{0.452}Al_{1.548}F_{4.578}(OH)_{1.422}(H_2O)_{0.835}$	FD3-MZ	30	2.073	62.187	0.422	1984	31345

Rambergite	$(Mn_{0.95}Fe_{0.05})S$	P63MC	4	1.000	4.000	0.500	2001	280868
Ramdohrite	$Ag_{2.43}Pb_6Sb_{11.57}S_{24}$	P121/N1	88	4.459	392.430	0.690	1983	31237
Rammelsbergite	$NiAs_2$	PNNM	6	0.918	5.510	0.355	1974	42116
Ramsayite	$Na_2(Ti_2Si_2O_9)$	PBCN	60	2.974	178.413	0.503	1987	202161
Ramsbeckite	$Cu_{15}(OH)_{22}(SO_4)_4(H_2O)_6$	P121/A1	126	4.993	629.137	0.716	1988	63249
Ramsdellite	MnO_2	PNMA	12	1.585	19.020	0.442	2004	171866
Rancieite	$Ca_{0.19}(Mn_{0.9}O_2)(H_2O)_{0.58}$	P3-	7	1.950	13.651	0.695	2008	164157
Rankinite	$Ca_3(Si_2O_7)$	P121/A1	48	3.585	172.078	0.642	1976	2282
Ransomite	$CuFe_2(SO_4)_4(H_2O)_6$	P21/C	58	3.892	225.763	0.664	1970	15177
Rapidcreekite	$Ca_2(SO_4)(CO_3)(H_2O)_4$	PCNB	120	3.907	468.827	0.566	1996	82493
Rappoldite	$Pb(CoNi_{0.64}Zn_{0.36})(AsO_4)_2(H_2O)_2$	P-1	15	3.107	46.603	0.795	2000	56914
Raspite	$Pb(WO_4)$	P121/A1	24	2.585	62.039	0.564	1977	811
Rasvumite	$K(Fe_2S_3)$	CMCM	12	1.918	23.020	0.535	2004	99507
Rathite	$Pb_{10.96}Ag_{1.9}(As_{18.09}Sb_{1.06})S_{40}$	P21/C	72	4.170	300.235	0.676	2002	95878
Rauenthalite	$Ca_3(AsO_4)_2(H_2O)_{11}$	P-1	48	4.585	220.078	0.821	1983	36046
Ravatite	$C_{14}H_{10}$	P1211	28	3.807	106.606	0.792	1990	56902
Realgar	As_4S_4	P121/N1	32	3.000	96.000	0.600	2007	173407
Rebulite	$Tl_5Sb_{4.45}As_{8.55}S_{22}$	P21/C	160	5.322	851.508	0.727	1982	17065
Reddingite	$Mn_2Fe(PO_4)_2(H_2O)_3$	PCMB	64	3.625	232.000	0.604	1953	24679
Redgillite	$Cu_6(OH)_{10}(SO_4)(H_2O)$	P21/C	48	3.585	172.078	0.642	2005	157069
Redledgeite	$Ba_{1.122}Ti_{8.16}O_{16}$	I4/M	13	1.854	24.106	0.501	1997	84630
Reederite-(Y)	$Na_{15}Y_2(CO_3)_9(SO_3F)Cl$	P6-	60	3.860	231.580	0.653	1995	80832
Reedmergnerite low	$Na(BSi_3O_8)$	C1-	26	3.700	96.211	0.787	1992	66325

Reichenbachite	$Cu_5(OH)_4(PO_4)_2$	P121/A1	38	3.301	125.421	0.629	1977	100019
Reinerite	$Zn_3(AsO_3)_2$	PBAM	44	2.914	128.215	0.534	1977	10400
Reinhardbraunsite	$Ca_5(SiO_4)_2((OH)_{1.4}F_{0.6})$	P121/A1	42	3.440	144.477	0.638	2009	165511
Remondite-(Ce)	$Na_3(Ce_{1.2}Ca_{1.16}Na_{0.4}Sr_{0.24})(CO_3)_5$	P1121	52	4.700	244.423	0.825	1989	65110
Rengeite	$(Sr_{3.846}Ce_{0.154})Zr(Ti_{3.68}Al_{0.1}Fe_{0.22})(Si_2O_7)_2O_8$	C12/M1	35	3.815	133.525	0.744	2002	95426
Rengeite	$(Sr_{3.842}Ce_{0.158})Zr(Ti_{3.70}Al_{0.10}Fe_{0.20})(Si_2O_7)_2O_8$	P121/A1	70	4.158	291.050	0.678	2002	95427
Renierite	$Cu_{9.36}(Zn_{0.8}Cu_{0.2})(Ge_{1.46}As_{0.16})Fe_{3.56}S_{16}$	P4-2C	66	3.529	232.930	0.584	1989	203093
Reppiaite	$Mn_5(OH)_4((V_{0.89}As_{0.11})O_4)_2$	C12/M1	19	2.880	54.711	0.678	1992	36586
Retgersite	$Ni(SO_4)(H_2O)_6$	P41212	96	3.668	352.156	0.557	2000	89699
Retzian-(Y)	$(Mn_{1.8}Mg_{0.2})(Y_{0.72}Ce_{0.28})(OH)_4(As_{0.95}Si_{0.05}O_4)$	PBANZ	24	2.085	50.039	0.455	1967	16903
Revdite	$Na_{16}(Si_4O_6(OH)_5)_2(Si_8O_{15}(OH)_6)(OH)_{10}(H_2O)_{28}$	C121	113	5.847	660.680	0.857	1992	39603
Reyerite	$Na_{1.6}Ca_{14}(Al_2Si_{22}O_{58})(OH)_8(H_2O)_6$	P3-	119	4.545	540.817	0.659	1988	68171
Rhabdophane-(Ce)	$Ce(PO_4)$	P6222	18	1.252	22.529	0.300	1950	31563
Rhenium	Re	P63/MMC	2	0.000	0.000	0.000	1961	109248
Rhodesite	$HKCa_2Si_8O_{19}(H_2O)_5$	PMAM	72	3.837	276.235	0.622	1992	36551
Rhodium	Rh	FM3-M	1	0.000	0.000	Nan	1954	64991
Rhodizite	$(K_{0.54}Cs_{0.36})Al_4Be_4((B_{11.35}Be_{.56})O_{28})$	P4-3M	49	2.491	122.062	0.444	1986	40974
Rhodochrosite	$Mn(CO_3)$	R3-CR	16	1.061	16.980	0.265	2009	162311
Rhodonite	$Mn(SiO_3)$	P-1	50	4.644	232.193	0.823	1977	34342
Rhodostannite	$Cu_2FeSn_3S_8$	I41/AS	14	1.379	19.303	0.362	1979	8215
Rhodplumsite	$Rh_3Pb_2S_2$	R3-MH	7	1.842	12.897	0.656	2009	420727
Rhoenite	$(Mg_4Ti_2)Ca_2(Al_4Si_2O_{20})$	P-1	68	5.117	347.947	0.841	1990	69398
Rhomboclase	$(H_5O_2)Fe(SO_4)_2(H_2O)_2$	PNMA	92	3.654	336.168	0.560	2009	164672

Ribbeite	$Mn_5(OH)_2(SiO_4)_2$	PNMA	88	3.641	320.430	0.564	1993	66646
Richelsdorfite	$Ca_2Cu_5Sb(Cl(OH)_6(AsO_4)_4)(H_2O)_6$	C12/M1	82	4.626	379.319	0.728	1987	62399
Richetite	$(Mg_{0.53}Fe_{0.47})Mg_{0.30}Pb_{8.74}((UO_2)_{18}O_{18}(OH)_{12})_2(H_2O)_{41}$	P1	224	7.807	1748.848	1.000	1998	85570
Richterite	$(Na_{0.4}K_{0.28})(Li_{0.03}Ca_{0.78}Na_{1.19})(Mg_{1.92}Mn_{0.08})(Al_{0.05}Fe_{0.49}Mg_{1.46})Mg(Si_8O_{22}(OH)_2)$	C12/M1	38	3.669	139.421	0.699	2008	160426
Richterite (Ca-free)	$Na(NaMg)Mg_5(Si_8O_{22}(OH)_2)$	P121/M1	84	4.583	384.955	0.717	2003	150825
Rickardite	$Cu_{2.72}Te_2$	P4/NMMS	6	1.585	9.510	0.613	1969	42768
Riebeckite	$(Na_{1.38}K_{0.13}Ca_{0.17}Mg_{0.25})(Mg_{2.81}Fe_{1.66}Fe_{0.48}Al_{0.05})(Si_{7.94}Al_{0.06})O_{22}(OH)_2$	I12/M1	39	3.593	140.131	0.680	1949	38218
Rimkorolgite	$Ba(Mg_5(H_2O)_7(PO_4)_4)(H_2O)$	P21/C	136	5.087	691.895	0.718	2002	95955
Ringwoodite	$Mg_2(SiO_4)$	FD3-MS	14	1.379	19.303	0.362	1993	74535
Rinkite	$Ca_{3.7}Na_{2.4}Ce_{.9}Ti(Si_2O_7)_2O_{.5}F_{3.5}$	P2111	60	4.907	294.413	0.831	1991	40666
Rinmanite	$Zn_2Sb_2Mg_{2.45}Fe_{3.55}O_{14}(OH)_2$	P63MC	28	2.788	78.077	0.580	2001	92983
Rinneite	$K_3Na(FeCl_6)$	R3-CH	22	1.617	35.578	0.363	2000	170747
Rivadavite	$Na_6Mg(B_6O_7(OH)_6)_4(H_2O)_{10}$	P21/C	186	5.550	1032.284	0.736	1973	58093
Roaldite	Fe_4N	PM3-M	5	1.371	6.855	0.590	1995	79980
Robinsonite	$Pb_{4.03}Sb_{5.97}S_{13}$	I12/M1	46	4.524	208.084	0.819	2004	151564
Rockbridgeite	$Fe_{4.32}Mn_{0.62}Zn_{0.06}(PO_4)_3(OH)_5$	CMCM	60	3.774	226.413	0.639	2006	171667
Rodalquilarite	$H_3Fe_2(TeO_3)_4Cl$	P-1	22	3.550	78.107	0.796	1999	50706
Rodolicoite	$Fe(PO_4)$	P3121	18	1.918	34.529	0.460	1986	201795
Roeblingite	$Pb_2Ca_6(SO_4)_2(OH)_2(H_2O)_4(Mn(Si_3O_9)_2)$	C12/M1	49	4.064	199.121	0.724	1984	40097
Roedderite	$(Mg_{4.75}Fe_{0.25})Na_{1.02}K_{0.94}(Si_{12}O_{30})$	P6-2C	100	3.457	345.739	0.520	1989	68546
Roemerite	$FeFe_2(SO_4)_4(H_2O)_{14}$	P-1	65	5.038	327.454	0.837	1970	15207

Roentgenite-(Ce)	$(CeF(CO_3))_3(CaCO_3)_2$	R3H	36	3.981	143.323	0.770	1953	27593
Roesslerite	$Mg(HAsO_4)(H_2O)_7$	C12/C1	56	3.950	221.212	0.680	1973	9341
Rogermitchellite	$Na_{14.4}Sr_{21.6}Ba_4Zr_{26}Si_{78}(Si_3B_9)O_{246}(OH)_{24}(H_2O)_{19.44}$	P3-C1	438	5.298	2320.653	0.604	2010	169967
Roggianite	$Ca_2(Be(OH)_2Al_2Si_4O_{13})(H_2O)_{2.34}$	I4/MCM	112	3.593	402.424	0.528	1991	71349
Rokuehnite	$FeCl_2(H_2O)_2$	C12/M1	9	1.837	16.529	0.579	1976	38012
Rollandite	$Cu_3(AsO_4)_2(H_2O)_4$	PNMA	68	3.264	221.947	0.536	2000	90026
Romanechite (supercell)	$Ba_{0.66}Mn_5O_{10}(H_2O)_{1.35}$	C12/M1	53	4.143	219.580	0.723	1988	64973
Romarchite	SnO	P4/NMMS	4	1.000	4.000	0.500	1981	15516
Romeite	$Ca_{1.58}Sb_2O_{6.37}F_{.44}$	FD3-MS	22	1.686	37.088	0.378	1963	27480
Rondorfite	$Ca_8(Mg_{0.912}Fe_{0.028}Al_{0.06})(SiO_4)_4(Cl_{1.86}(OH)_{0.14})$	FD3-Z	62	2.421	150.102	0.407	2004	151559
Ronneburgite	$K_2Mn(VO_3)_4$	P121/N1	38	3.301	125.421	0.629	2001	92641
Rooseveltite	$Bi(AsO_4)$	P121/N1	24	2.585	62.039	0.564	1982	27199
Roquesite	$CuInS_2$	I4-2D	8	1.500	12.000	0.500	1988	628063
Rorisite	CaClF	P4/NMMZ	6	1.585	9.510	0.613	1977	1130
Rosasite	$CuZn(OH)_2(CO_3)$	P121/A1	32	3.000	96.000	0.600	2006	109166
Roscherite	$Ca_2Mn_{2.56}Fe_{1.74}Al_{0.4}Mg_{0.2}Be_4(PO_4)_6(OH)_4(H_2O)_6$	C12/C1	60	4.040	242.413	0.684	2005	250287
Roscoelite 1M	$(Ba_{0.006}K_{0.994})(Al_{0.040}Fe_{0.150}Mg_{0.100}Mn_{0.062}V_{1.696}Ti_{0.003})((Si_{3.150}Al_{0.850})O_{10}(OH)_2)$	C12/M1	20	2.822	56.439	0.653	2003	98145
Roselite	$Ca_2(Mg_{0.485}Co_{0.515})(AsO_4)_2(H_2O)_2$	B121/A1	30	2.974	89.207	0.606	1977	200126
Rosemaryite	$Na_{0.297}(Na_{0.136}Mn_{0.244})Mn_{0.93}(Al_{0.945}Fe_{1.062})(PO_4)_3$	P121/N1	88	4.505	396.430	0.697	2006	156817
Rosenbuschite	$(Ca_{1.88}Ce_{0.03}Mn_{0.22}Zr_{1.68}Y_{0.15}Hf_{0.04})(Ca_{1.91}Na_{2.09})(Ca_{3.38}Na_{0.62})(Na_{1.67}Ca_{0.33})(Ti_{0.95}Zr_{0.77}Fe_{0.11}Nb_{0.17})(Si_2O_7)_4(O_{2.2}F_{1.8})F_4$	P-1	60	4.974	298.413	0.842	2003	55307
Rosenhahnite	$Ca_3(Si_3O_8(OH)_2)$	P-1	36	4.170	150.117	0.807	1977	100074

Rosiaite	$Pb(Sb_2O_6)$	P3-1M	9	1.224	11.020	0.386	1996	81387
Rosickyite low	S_8	P1211	48	4.585	220.078	0.821	2006	241116
Rossite	$Ca(VO_3)_2(H_2O)_4$	P-1	26	3.700	96.211	0.787	1963	17001
Rossmanite	$Na_{0.43}(Al_{2.17}Li_{0.83})Al_6(Si_6O_{18})(BO_3)_3(OH)_4$	R3MH	50	3.522	176.115	0.624	1998	85557
Roubaultite	$Cu_2(UO_2)_3(CO_3)_2O_2(OH)_2(H_2O)_4$	P-1	37	4.236	156.750	0.813	1985	60064
Roumaite	$(Nb_{0.55}Ti_{0.45})(Ca_{3.16}Na_{2.07}Ce_{1.22})(Si_2O_7)_2((OH)F_3)$	C1C1	60	4.907	294.413	0.831	2010	167008
Routhierite	$Tl(Cu_{0.64}Ag_{0.36})(Hg_{0.85}Zn_{0.15})_2(As_{0.85}Sb_{0.15})_2S_6$	I4-2M	24	2.418	58.039	0.527	2008	260077
Rouvilleite	$Na_3Ca(Mn_{0.5}Ca_{0.5})(CO_3)_3F$	C1C1	36	4.170	150.117	0.807	1991	39352
Rouxelite	$HgCu_2Pb_{22.612}Sb_{27.388}S_{64.66}O_{1.34}$	C12/M1	119	5.903	702.483	0.856	2005	171044
Roweite	$Ca_2Mn_2(OH)_4(B_4O_7(OH)_2)$	PBAM	84	3.869	324.955	0.605	1974	6172
Rozenite	$Fe(SO_4)(H_2O)_4$	P121/N1	72	4.170	300.235	0.676	1962	23912
Ruarsite	RuAsS	P21/C	12	1.585	19.020	0.442	1964	42579
Rucklidgeite	$Pb_{1.71}Bi_{6.86}Te_{12}$	R3-MH	7	1.950	13.651	0.695	1970	60089
Ruitenbergite	$Ca_9(B_{26}O_{34})(OH)_{24}Cl_4(H_2O)_{13}$	P1211	220	6.781	1491.899	0.871	1995	76889
Ruizite	$Ca_2Mn_2(OH)_4(Si_4O_{11})(H_2O)_2$	C12/M1	25	3.364	84.096	0.724	1985	201627
Russellite	$Bi_2(WO_6)$	PCA21	36	3.170	114.117	0.613	1992	67647
Rustenburgite. palladian	$(Pd_{1.41}Pt_{1.59})(Pd_{0.13}Sn_{0.87})$	FM3-M	1	0.000	0.000	Nan	1975	40336
Rustumite	$(Ca_3(Si_2O_7))_2(Ca_2(SiO_4))(CaCl_2)(Ca(OH)_2)$	C12/C1	74	4.236	313.500	0.682	1979	20160
Ruthenarsenite	RuAs	PNMA	8	1.000	8.000	0.333	1974	42577
Ruthenirid osmine	$Ir_{0.43}Os_{0.47}Ru_{0.1}$	P63/MMC	2	0.000	0.000	0.000	1973	40353
Ruthenium	Ru	P63/MMC	2	0.000	0.000	0.000	1974	40354
Ruthenosmiridium	$Ir_{0.33}Os_{0.33}Ru_{0.34}$	FM3-M	1	0.000	0.000	Nan	1973	40352
Rutherfordine	$(UO_2)(CO_3)$	IMM2	7	2.236	15.651	0.796	1999	87760

Rutile	TiO_2	P42/MNM	6	0.918	5.510	0.355	1971	9161
Rynersonite	$Ca(Ta_2O_6)$	PNMA	36	2.503	90.117	0.484	1963	24091
Sabelliite	$(Cu_2Zn_{0.213})Zn_{0.74}As_{0.667}(As_{0.5}Sb_{0.5})_{0.273}O_{3.606}(OH)_{3.394}$	P3-	42	3.081	129.419	0.571	1995	80916
Sabinaite	$Na_4Zr_2TiO_4(CO_3)_4$	C12/C1	54	3.792	204.764	0.659	1996	82488
Safflorite	$(Co_{0.61}Fe_{0.17}Ni_{0.22})(As_2)$	PNNM	6	0.918	5.510	0.355	2008	260064
Sahamalite-(Ce)	$(Mg_{0.86}Fe_{0.14})(Ce_{0.53}La_{0.47})_2(CO_3)_4$	P121/A1	38	3.301	125.421	0.629	1983	31271
Sahlinite	$Pb_{14}(AsO_4)_2O_9Cl_4$	C12/C1	74	4.291	317.500	0.691	2003	97928
Sailaufite	$(Ca_{1.145}Na_{0.855})Mn_3O_2(AsO_4)_2(CO_3)(H_2O)_3$	C1M1	91	5.673	516.209	0.872	2003	55433
Sainfeldite	$Ca_5(HAsO_4)_2(AsO_4)_2(H_2O)_4$	C12/C1	78	4.311	336.261	0.686	1972	21068
Sakhaite	$Ca_3Mg_{0.825}Fe_{0.175}(CO_3)(Al(SiO_{3.75}(OH)_{0.25})_4)_{0.0625}(BO_3)_{1.75}(H_2O)_{0.2}(HCl)_{0.2}$	FD3-MZ	84	2.498	209.857	0.391	2005	250275
Salammoniac	$(NH_4)Cl$	PM3-M	2	1.000	2.000	1.000	1970	22141
Saleeite	$(((Mg_{0.81}Fe_{0.19})(H_2O)_6)(H_2O)_4)((UO_2)((P_{0.67}As_{0.33})O_4))_2$	P121/N1	94	4.576	430.131	0.698	2008	246240
Salesite	$Cu(IO_3)(OH)$	PNMA	28	2.522	70.606	0.525	1978	41804
Salzburgite	$Cu_{1.6}(Pb_{1.62}Bi_{2.38})Bi_4S_{12}$	PMCN	24	2.585	62.039	0.564	2006	156641
Samfowlerite	$Ca_{14}Mn_3Zn_2(Zn_{0.765}Be_{1.235})Be_6(SiO_4)_6(Si_2O_7)_4(OH)_6$	P21/C	210	5.724	1201.992	0.742	1994	79146
Samsonite	$Ag_4Mn(SbS_3)_2$	P121/N1	26	2.777	72.211	0.591	2007	156766
Samuelsonite	$Ba_{.42}Ca_{.92}(Mn_{.45}Fe_{.295}Na_{.255})_4Ca_8Al_2(OH)_2(PO_4)_{10}$	C12/M1	68	4.735	321.947	0.778	1977	100034
Sanbornite	$Ba_2(Si_4O_{10})$	PMCN	32	2.250	72.000	0.450	1980	100313
Sanderite	$Mg(SO_4)(H_2O)_2$	P212121	56	3.807	213.212	0.656	2009	163124
Saneroite	$Na_{2.29}Mn_{10}(Si_{11}VO_{34})(OH)_4$	P-1	65	5.038	327.454	0.837	1980	100478
Sanidine	$K(AlSi_3O_8)$	C12/M1	26	2.931	76.211	0.624	1972	26358

Sanmartinite	$Zn(WO_4)$	P12/C1	12	1.918	23.020	0.535	1997	84540
Sanromanite	$Na_2CaPb_3(CO_3)_5$	P63MC	52	3.007	156.345	0.527	2007	159430
Santaclaraite	$Ca_{0.92}Mn_{4.03}Mg_{0.05}(Si_5O_{14}(OH))(OH)(H_2O)$	I1-	62	4.954	307.160	0.832	1981	100729
Santite	$K(B_5O_6(OH)_4)(H_2O)_2$	ABA2	52	3.777	196.423	0.663	1970	6292
Sapphirine 1A	$Al_{3.8}Mg_{3.15}Fe_{1.05}(Si_{1.75}Al_{4.25}O_{20})$	P-1	68	5.117	347.947	0.841	1980	100297
Sapphirine 2M	$Mg_{3.5}Al_9Si_{1.5}O_{20}$	P121/A1	136	5.087	691.895	0.718	1969	15200
Sarabauite	$CaSb_{10}O_{10}S_6$	C12/C1	54	3.792	204.764	0.659	1978	30553
Sarcolite	$Na_{1.04}Ca_{6.38}(Al_4Si_6O_{23})(OH)_{0.46}F_{0.5}(SiO_4)_{0.25}(PO_4)_{0.25}(SO_4)_{0.5}$	I4/M	102	4.084	416.587	0.612	1987	41032
Sarcopside	$Fe_3(PO_4)_2$	P21/C	26	2.777	72.211	0.591	1991	56293
Sarkinite	$Mn_2(AsO_4)(OH)$	P21/C	144	5.170	744.469	0.721	2002	411973
Sartorite	$(Pb_{8.08}Tl_{1.46})As_{17.46}S_{35}$	P21/C	248	5.954	1476.641	0.749	2003	98138
Sassolite	$B(OH)_3$	P-1	28	3.807	106.606	0.792	1986	61365
Satterlyite	$(Fe_{0.77}Mg_{0.23})_{12}(PO_3OH)(PO_4)_5((OH)_5O)$	P31M	55	3.889	213.897	0.673	2002	94842
Sayrite	$Pb_2(UO_2)_5O_6(OH)_2(H_2O)_4$	P21/C	58	3.892	225.763	0.664	1983	38374
Sazhinite-(Ce)	$Na_2Ce(Si_6O_{14})(OH)(H_2O)_{1.5}$	PMM2	51	4.221	215.294	0.744	1980	36401
Sazhinite-(La)	$Na_3La(Si_6O_{15})(H_2O)_2$	PMM2	55	4.290	235.975	0.742	2006	157869
Sazykinaite-(Y)	$Na_2(Na_{2.4}K_{0.6})(Zr_{0.7}Ti_{0.2}Nb_{0.1})(Y_{0.8}Dy_{0.1}Gd_{0.1})(Si_6O_{18})(H_2O)_6$	R32H	49	3.384	165.797	0.603	1992	39627
Sborgite beta	$Na(B_5O_6(OH)_4)(H_2O)_3$	C12/C1	116	4.892	567.526	0.713	1990	66027
Scacchite	$MnCl_2$	R3-MH	3	0.918	2.755	0.579	1990	33752
Scainiite	$Pb_{14}Sb_{30}S_{54}O_5$	C12/M1	206	6.182	1273.419	0.804	2000	90042
Scandiobabingtonite	$Ca_2Fe(Fe_{0.73}Sc_{0.27})Si_5O_{14}(OH)$	P-1	48	4.585	220.078	0.821	1998	86582
Scapolite	$(Ca_{0.794}Na_{0.206})_4(Al_{4.68}Si_{7.32}O_{24})((CO_3)_{0.834}(SO_4)_{0.146})$	I4/M	45	3.003	135.133	0.547	2008	161237

Scawtite	$Ca_7(Si_6O_{18})(CO_3)(H_2O)_2$	I1M1	41	4.626	189.660	0.863	2005	156624
Schachnerite	$Ag_{1.1}Hg_{0.9}$	P63/MMC	2	0.000	0.000	0.000	1972	40357
Schaeferite	$(Na_{0.70}Ca_{2.30})(Mg_{1.85}Mn_{0.15})((VO_4)_{2.88}(PO_4)_{0.12})$	IA3-D	80	1.595	127.637	0.252	1999	89032
Schafarzikite	$FeO(Sb_2O_3)$	P42/MBC	28	1.950	54.606	0.406	1975	4459
Schairerite	$Na_{21}(SO_4)_7F_6Cl$	P31M	189	5.635	1064.990	0.745	1975	4289
Schapbachite	$AgBiS_2$	FM3-M	2	1.000	2.000	1.000	1968	604845
Scheelite	$Ca(WO_4)$	I41/AZ	12	1.252	15.020	0.349	2007	157428
Schertelite	$(NH_4)_2(Mg(H_2O)_4)(HPO_4)_2$	PBCA	136	4.087	555.895	0.577	1972	2733
Scheuchzerite	$Na_{0.8}Mg_{0.2}(Mn_{8.57}Mg_{0.43})(VSi_9O_{28}(OH))(OH)_3$	P-1	104	5.700	592.846	0.851	2006	156622
Schiavinatoite	$(Nb_{0.53}Ta_{0.47})(BO_4)$	I41/AMDS	12	1.252	15.020	0.349	2001	92915
Schlegelite	$Bi_7O_4(MoO_4)_2(AsO_4)_3$	PNCA	144	4.281	616.469	0.597	2006	156821
Schlemaite	$(Cu_{4.93}Ag_{0.40})(Pb_{0.61}Bi_{0.39})Se_4$	P121/M1	22	3.459	76.107	0.776	2003	98899
Schmiederite	$Pb_2Cu_2(OH)_4(SeO_3)(SeO_4)$	P121/M1	34	3.735	126.974	0.734	1987	68172
Schmitterite	$UTeO_5$	PCA21	28	2.807	78.606	0.584	2007	160677
Schneebergite	$(Bi_{0.653}Ca_{0.347})(Co_{1.04}Ni_{0.6}Fe_{0.36})(AsO_4)_2(OH)(H_2O)$	C12/M1	15	2.707	40.603	0.693	2002	158109
Schneiderhoehnite	$FeFe_3(As_5O_{13})$	P-1	44	4.505	198.215	0.825	1985	40524
Schoenfliesite	$Mg(Sn(OH)_6)$	PN3-Z	80	1.995	159.637	0.316	1998	76927
Schoepite	$((UO_2)_8O_2(OH)_{12})(H_2O)_{12}$	P21CA	200	5.644	1128.771	0.738	1996	82477
Scholzite	$Zn_2Ca(PO_4)_2(H_2O)_2$	PBC21	180	5.492	988.534	0.733	1975	4270
Scholzite	$CaZn_2(PO_4)_2(H_2O)_2$	PBCN	60	2.974	178.413	0.503	1973	23667
Schoonerite	$ZnMn(Fe_2(H_2O)_7)Fe(OH)_2(PO_4)_3(H_2O)_2$	PMAB	124	4.374	542.320	0.629	1977	100035
Schorl	$NaFe_3Al_6(BO_3)_3(Si_6O_{18})(OH)_4$	R3MH	50	3.522	176.115	0.624	1975	4380

Schorlomite	$Ca_{2.915}Fe_{1.341}Na_{.02}Mn_{.034}Ti_{1.054}Mg_{.158}Zr_{.056}Nb_{.002}Si_{2.263}Al_{.157}O_{12}$	IA3-D	80	1.595	127.637	0.252	2005	171566
Schreibersite	Fe_2NiP	I4-	16	2.000	32.000	0.500	1970	14241
Schreyerite	$Ti_3(V_2O_9)$	C12/C1	28	2.950	82.606	0.614	2006	108830
Schroeckingerite	$NaCa_3((UO_2)(CO_3)_3)(SO_4)F(H_2O)_{10}$	P-1	102	5.672	578.587	0.850	1986	30999
Schubnelite	$Fe(VO_4)(H_2O)$	P-1	18	3.170	57.059	0.760	1999	87710
Schuetteite	$Hg_3O_2(SO_4)$	P3121	30	2.522	75.658	0.514	2001	280869
Schuilingite-(Nd)	$PbCuNd(CO_3)_3(OH)(H_2O)$	P21CN	68	4.087	277.947	0.671	1999	87741
Schulenbergite	$(Cu_6Zn)(SO_4)_2(OH)_{10}(H_2O)_3$	P3-	30	2.706	81.168	0.551	1994	79548
Schultenite	$PbH(AsO_4)$	P12/C1	16	2.250	36.000	0.563	1991	71231
Schwartzembergite	$(Pb_5(IO_3)O(OH)_2Cl_3)_{0.667}$	I4/MMM	5	1.522	7.610	0.655	2001	95288
Schwazite	$(Cu_{10.63}Hg_{1.37})((Sb_{3.33}As_{0.67})S_{13})$	I4-3M	29	2.029	58.842	0.418	2003	150824
Schwertmannite	$Fe_{16}O_{16}(OH)_{16}(H_2O)_2$	P1	50	5.644	282.193	1.000	2010	167991
Sclarite	$(Zn_{2.4}Mg_{1.2}Mn_{0.4})Zn_3(CO_3)_2(OH)_{10}$	A12/A1	70	4.158	291.050	0.678	1989	203157
Scolecite	$Ca(Al_2Si_3O_{10})(H_2O)_3$	C1C1	38	4.248	161.421	0.809	1979	8186
Scorodite	$Fe(AsO_4)(H_2O)_2$	PCAB	96	3.585	344.156	0.544	1976	627
Scorzalite	$Mg_{.23}Fe_{.77}Al_2(PO_4)_2(OH)_2$	P21/C	30	2.974	89.207	0.606	1959	29319
Scotlandite	$Pb(SO_3)$	P121/M1	10	1.922	19.219	0.579	1985	30993
Scrutinyite	$Pb_{0.866}O_2$	PBCN	12	0.918	11.020	0.256	1982	32693
Seamanite	$Mn_3(B(OH)_4)(PO_4)(OH)_2$	PBNM	92	4.002	368.168	0.613	2002	95363
Searlesite	$Na(BSi_2O_5)(OH)_2$	P1211	26	3.700	96.211	0.787	1976	12134
Sederholmite	NiSe	P63/MMC	4	1.000	4.000	0.500	1972	646525
Seeligerite	$Pb_3(IO_3)OCl_3$	CMM2	44	4.778	210.215	0.875	2008	164135

Seelite	$Mg((UO_2)(AsO_3)_{0.7}(AsO_4)_{0.3})_2(H_2O)_7$	C12/M1	27	3.347	90.382	0.704	1994	78417
Segelerite	$CaMgFe(OH)(PO_4)_2(H_2O)_4$	PBCA	144	4.170	600.469	0.582	1977	10407
Segnitite	$PbFe_3(AsO_4)_2(OH)_5(H_2O)$	R3-MH	25	2.432	60.812	0.524	1992	40681
Seidite-(Ce)	$Na_4(SrCe)(Ti(OH)_2(Si_8O_{18}))O_2(O(OH))(H_2O)_5$	C12/C1	88	4.550	400.430	0.704	2003	55304
Seidozerite	$(Zr_{2.77}Ti_{0.76}Fe_{0.36}Mg_{0.06}Nb_{0.05})(Mn_{0.85}Mg_{0.53}Fe_{0.28}Ca_{0.36}Na_{1.98})(Na_{3.84}Ca_{0.16})Na_{1.98}(Ti_{1.96}Nb_{0.04})(Si_2O_7)_4O_{3.8}F_{3.8}$	P12/C1	60	4.040	242.413	0.684	2003	55308
Seifertite	SiO_2	PBCN	12	0.918	11.020	0.256	2008	161310
Seinaejokite	$FeSb_2$	PNN2	6	0.918	5.510	0.355	1970	42722
Sekaninaite	$Mg_{0.34}Fe_{1.66}Al_4Si_5O_{18}$	CCCM	58	3.479	201.763	0.594	1979	100491
Selenium	Se	P3121	3	0.000	0.000	0.000	1967	22251
Seligmannite	$PbCuAsS_3$	PN21M	24	3.085	74.039	0.673	1970	14304
Sellaite	MgF_2	P42/MNM	6	0.918	5.510	0.355	1976	394
Semenovite-(Ce)	$Ce_2Fe_{0.5}Mn_{0.5}Na_{6.8}Ca_{2.6}(Be_6Si_{14}O_{39.32})O_{0.88}(OH)_{5.8}F_2$	PMNN	164	4.699	770.639	0.639	1979	100264
Semseyite	$(PbS)_9(Sb_2S_3)_4$	C12/C1	76	4.301	326.842	0.688	1974	38838
Senaite (U-rich)	$Pb_{0.508}U_{0.466}Ti_{10.944}Fe_{8.56}O_{38}$	R3-H	67	3.662	245.330	0.604	1990	89268
Senandorite (subcell)	$Ag_4Pb_4Sb_{12}S_{24}$	BBMM	22	2.732	60.107	0.613	1971	23666
Senarmontite	Sb_2O_3	FD3-MS	20	0.971	19.419	0.225	1975	1944
Senegalite	$Al_2(OH)_3(PO_4)(H_2O)$	P21NB	44	3.459	152.215	0.634	1979	100542
Sengierite	$Cu(UO_2)(VO_4)(OH)(H_2O)_3$	P121/A1	52	3.700	192.423	0.649	1980	200704
Senkevichite	$Cs_{0.9}K_{1.08}Na(Ca_{1.62}Mn_{0.3}Fe_{0.06})(Ti_{0.93}Nb_{0.04})O(Si_7O_{18}(OH))$	P-1	68	5.087	345.947	0.836	2006	156233
Sepiolite	$Mg_8(Si_{12}O_{30}(OH)_4)(H_2O)_{11.82}$	PNCN	136	4.323	587.895	0.610	2007	156199
Sepiolite	$Mg_8(Si_{12}O_{30}(OH)_4)(H_2O)_2$	P121/N1	112	4.807	538.424	0.706	2007	156200

Serandite	$(Ca_{0.18}Mn_{1.82})NaH(SiO_3)_3$	P-1	30	3.907	117.207	0.796	1976	12130
Serendibite	$(Ca_{1.598}Na_{0.402})(B_{1.632}Si_{0.368})Mg_2Al_5(Si_3O_{20})$	P-1	68	5.117	347.947	0.841	1993	72936
Sericite 2M1	$(K_{0.727}Na_{0.170}Ca_{0.011})(Al_{0.933}Fe_{0.016}Mg_{0.011})_2(Si_{0.782}Al_{0.221}Ti_{0.005})_4O_{10}(OH)_2$	C12/C1	42	3.440	144.477	0.638	1998	87447
Serpierite	$YTaO_4$	C12/C1	12	1.918	23.020	0.535	1968	36076
Serrabrancaite	$Mn(PO_4)(H_2O)$	C12/C1	18	2.503	45.059	0.600	1987	62220
Sewardite	$CaFe_2(AsO_4)_2(OH)_2$	CCCM	60	3.440	206.413	0.582	2002	96611
Shakhovite	$Hg_4(Sb(OH)_3O_3)$	I1M1	11	2.732	30.054	0.790	1982	158912
Shandite	$Pb_2Ni_3S_2$	R3-MH	7	1.842	12.897	0.656	2007	417632
Shannonite	$Pb_2O(CO_3)$	P212121	28	2.807	78.606	0.584	2000	91714
Shattuckite	$Cu_5(OH)_2(SiO_3)_4$	PCAB	100	3.684	368.386	0.554	1977	100072
Shcherbakovite	$Na(K_{0.8}Ba_{0.1}Na_{0.1})_2(Ti_{0.7}Nb_{0.25}Fe_{0.05})_2(Si_2O_7)_2$	IMMA	46	3.219	148.084	0.583	2004	250169
Shcherbinaite	V_2O_5	PMN21	14	1.950	27.303	0.512	1996	82151
Sheldrickite	$NaCa_3(CO_3)_2F_3(H_2O)$	P32	48	4.000	192.000	0.716	1997	89257
Sherwoodite	$Ca_{4.5}(AlV_{14}O_{40})(H_2O)_{28}$	I41/AMDZ	228	4.149	945.899	0.530	1978	100660
Shibkovite	$(Ca_{0.63}Mn_{0.20}Na_{0.17})_2K_{2.26}Zn_3(Si_{12}O_{30})$	P6/MCC	100	2.577	257.739	0.388	1999	87953
Shigaite	$(AlMn_2(OH)_6)_3(Na(H_2O)_6)(SO_4)_2(H_2O)_6$	R3-H	92	4.098	377.031	0.628	1996	82492
Shirokshinite 1M	$K(NaMg_2)(Si_4O_{10}F_2)$	C12/M1	20	2.822	56.439	0.653	2003	98196
Shirozulite	$(K_{0.9}Ba_{0.09})(Mn_{1.53}Mg_{0.94}Fe_{0.2}Ti_{0.04}Al_{0.29})((Si_{2.54}Al_{1.46})O_{10}((OH)_{1.97}F_{0.03}))$	C12/M1	22	3.005	66.107	0.674	2004	98803
Shlykovite	$KCa(Si_4O_9(OH))(H_2O)_3$	P21/C	68	4.087	277.947	0.671	2010	168542
Shomiokite-(Y)	$Na_3Y(CO_3)_3(H_2O)_3$	PNA21	100	4.644	464.386	0.699	1996	82498
Shortite	$Ca_2Na_2(CO_3)_3$	AMM2	16	3.000	48.000	0.750	1971	16495
Shuangfengite	$Ir(Te_2)$	P3-M1	3	0.918	2.755	0.579	1991	33934

Sibirskite	$CaH(BO_3)$	P121/A1	20	2.322	46.439	0.537	2008	162409
Sicherite	$TlAg_2As_{2.03}Sb_{0.97}S_6$	PMNB	48	2.918	140.078	0.523	2001	411118
Sicklerite	$Li(Fe_{0.06}Mn_{0.94})(PO_4)$	PBNM	28	2.522	70.606	0.525	2004	54825
Siderite	$Fe(CO_3)$	R3-CH	10	1.371	13.710	0.413	1981	100678
Sideronatrite	$Na_2Fe(SO_4)_2(OH)(H_2O)_3$	P212121	60	3.907	234.413	0.661	2009	165670
Sideronatrite	$Na_2Fe(SO_4)_2(OH)(H_2O)_3$	P121/A1	60	3.974	238.413	0.673	2009	165671
Siderophyllite 1M	$K(Fe_{2.301}Al_{0.699})(Al_{1.51}Si_{2.49}O_{10})(OH)_2$	C12/M1	22	3.005	66.107	0.674	2002	95358
Siderophyllite 3T. lithian	$(Na_{0.03}K_{0.91})(Al_{1.09}Fe_{0.98}Li_{0.68}Mg_{0.03}Mn_{0.11})(Al_{0.89}Si_{3.11}O_{10})(O_{0.34}(OH)_{0.30}F_{1.36})$	P3112	60	3.522	211.316	0.596	2003	98193
Siderotil	$(Cu_{0.27}Fe_{0.73})(SO_4)(H_2O)_5$	P-1	22	3.550	78.107	0.796	2003	97295
Sidorenkite	$Na_3Mn(PO_4)(CO_3)$	P121/M1	26	3.393	88.211	0.722	1980	200789
Sidpietersite	$Pb_4(S_2O_3)O_2(OH)_2$	P-1	26	3.700	96.211	0.787	1999	87736
Sidwillite	$MoO_3(H_2O)_2$	P121/N1	160	5.322	851.508	0.727	1985	40535
Siegenite	$Co_2(NiS_4)$	FD3-MS	14	1.379	19.303	0.362	1971	624467
Sigloite	$Fe((H_2O)_3OH)(Al_2(PO_4)_2(OH)_2(H_2O)_2)(H_2O)_2$	P-1	27	3.866	104.382	0.813	1988	68095
Silicocarnotite	$Ca_5(SiO_4)_2(SO_4)$	PCMN	80	3.522	281.754	0.557	1974	4332
Silinaite	$NaLi(Si_2O_5)(H_2O)_2$	A12/N1	30	3.107	93.207	0.633	1991	63718
Sillimanite	$Al_2(SiO_4)O$	PBNM	32	2.750	88.000	0.550	1992	66330
Silver	Ag	FM3-M	1	0.000	0.000	Nan	1965	52545
Silvialite	$Na_{1.55}Ca_{2.45}(Al_{4.87}Si_{7.13})O_{24}((SO_4)_{0.52}(CO_3)_{0.48})$	I4/M	45	3.003	135.133	0.547	1999	88935
Simmonsite	$Na_2Li(AlF_6)$	P121/N1	20	2.522	50.439	0.584	2003	96477
Simonellite	$(CH_3)_2(C_3H_7)(C_{14}H_{11})$	PNAA	152	4.248	645.685	0.586	1969	97585
Simonite	$TlHgAs_3S_6$	P121/N1	44	3.459	152.215	0.634	1982	38363

Simonkolleite	$Zn_5(OH)_8Cl_2(H_2O)$	R3-MH	29	2.814	81.597	0.579	2002	95365
Simpsonite	$Al_4Ta_3O_{13}(OH)$	P3	21	3.034	63.709	0.691	1992	67673
Sinhalite	$Al(Mg_{0.982}Fe_{0.018})(BO_4)$	PNMA	28	2.522	70.606	0.525	2009	163525
Sinjarite	$CaCl_2(H_2O)_2$	PBCN	36	2.281	82.117	0.441	1977	960
Sinkankasite	$(Mn(H_2O)_4)(Al(PO_3OH)_2(OH))(H_2O)_2$	P-1	68	5.117	347.947	0.841	1995	80126
Sinnerite	$Cu_{12}(As_3S_7)(As_5S_{11})$	P1	38	5.248	199.421	1.000	1975	66660
Sitinakite	$Na_2(Ti_2O_3(SiO_4))(D_2O)_2$	P42/MCM	72	3.281	236.235	0.532	2010	169116
Sjoegrenite	$Mg_6Fe_2(OH)_{16}(CO_3)(H_2O)_4$	P63/MCM	384	4.685	1799.020	0.546	1995	80877
Skiagite	$Fe_5(SiO_4)_3$	IA3-D	80	1.595	127.637	0.252	2008	161139
Skinnerite	Cu_3SbS_3	P21/C	56	3.807	213.212	0.656	1994	74901
Skippenite	Bi_2Se_2Te	R3-MH	5	1.522	7.610	0.655	2004	54838
Sklodowskite	$Mg(UO_2)_2(Si_2O_7)(H_2O)_7$	C12/M1	23	3.219	74.042	0.712	1977	1148
Skorpionite	$Ca_3Zn_2(PO_4)_2(CO_3)(OH)_2(H_2O)$	C12/C1	50	3.844	192.193	0.681	2008	160476
Skutterudite	$CoAs_3$	IM3-	16	0.811	12.980	0.203	1971	9188
Skutterudite	$Sn_7Pt_4Sb_{5.5}$	P1	33	5.044	166.465	1.000	2008	173621
Slavikite	$(H_3O)_3(Mg(H_2O)_6)_6Fe_{15}(SO_4)_{21}(OH)_{18}(H_2O)_{62}$	R3-H	154	4.780	736.096	0.658	2010	166057
Slavkovite	$Cu_{13}(AsO_4)_6(AsO_3OH)_4(H_2O)_{23}$	P-1	77	5.280	406.543	0.843	2010	169938
Slawsonite	$Sr(Al_2Si_2O_8)$	P121/A1	52	3.700	192.423	0.649	1995	78793
Smirnite	Bi_2TeO_5	ABM2	32	3.250	104.000	0.650	1983	36446
Smithite	$AgAsS_2$	C12/C1	48	3.668	176.078	0.657	1964	653857
Smithsonite	$Zn(CO_3)$	R3-CH	10	1.371	13.710	0.413	1981	100679
Smythite	Fe_3S_4	R3-MH	7	1.950	13.651	0.695	1957	42537

Sobolevite	$Na_{12}Ca(Na_{1.62}Ca_{0.63}Sr_{.03}Mn_{0.55})(Ti_{2.42}Nb_{0.51}Fe_{0.10}Zr_{0.09}Mn_{0.47}Mg_{0.41})(PO_4)_4(Si_2O_7)_2O_3F_3$	P1C1	128	6.000	768.000	0.857	2005	156660
Soda-melilite. strontian	$(Ca_{0.83}Sr_{0.45}Na_{0.72})(Mg_{0.20}Fe_{0.29}Mn_{0.03}Zn_{0.01}Al_{0.45}Ti_{0.02})((Si_{1.99}Al_{0.01})O_7)$	P4-21M	24	2.418	58.039	0.527	2001	158085
Sodalite	$Na_8(Al_6Si_6O_{24})Cl_2$	P4-3N	46	1.892	87.025	0.343	1967	15336
Soddyite	$(UO_2)_2(SiO_4)(H_2O)_2$	FDDDZ	34	2.440	82.974	0.480	1992	66313
Sodicgedrite	$Na_{0.34}(Al_{1.21}Mg_{4.52}Fe_{1.22}Ca_{.02})(Si_{6.25}Al_{1.75})O_{22}(OH)_2$	PNMA	160	4.472	715.508	0.611	1970	34832
Soehngeite	$Ga(OH)_3$	IM3-	16	0.811	12.980	0.203	1971	60682
Soerensenite	$Na_4SnBe_2(Si_3O_9)_2(H_2O)_2$	C12/C1	74	4.291	317.500	0.691	1976	600
Sogdianite	$Zr_2KLi_3(Si_{12}O_{30})$	P6/MCC	96	2.432	233.510	0.369	2000	89899
Solongoite	$Ca_2(B_3O_4(OH)_4)Cl$	P1121/B	72	4.170	300.235	0.676	1977	200074
Sonolite (Mg.Zn-bearing)	$Mn_{4.74}Mg_{3.38}Zn_{1.22}(SiO_4)_4((OH)_{1.20}F_{0.80})$	P21/B11	70	4.158	291.050	0.678	1994	75546
Sonoraite	$Fe(TeO_3)(OH)(H_2O)$	P21/C	56	3.807	213.212	0.656	1970	6310
Sophiite	$Zn_2(SeO_3)Cl_2$	PCCN	64	3.000	192.000	0.500	1992	67606
Sorosite	$Cu(Sn_{0.9}Sb_{0.1})$	P63/MMC	4	1.000	4.000	0.500	1998	56274
Souzalite	$(Mg_{1.5}Fe_{1.5})Al_3(Al_{0.858}Fe_{0.142})(PO_4)_4(OH)_6(H_2O)_2$	P-1	35	4.215	147.525	0.822	2003	98205
Spangolite	$Cu_6Al(SO_4)(OH)_{12}Cl(H_2O)_3$	P31C	92	4.076	375.031	0.625	1992	72806
Spencerite	$Zn_4(PO_4)_2(OH)_2(H_2O)_3$	P12/C1	38	3.406	129.421	0.649	1972	9349
Sperrylite	$PtAs_2$	PA3-	12	0.918	11.020	0.256	1979	38428
Spertiniite	$Cu(OH)_2$	CMC21	10	2.322	23.219	0.699	1990	68459
Spessartine	$Mn_9(OH)_9(AsO_3)(AsO_4)_2(H_2O)_2$	IA3-D	136	4.205	571.895	0.593	1971	34834
Sphaerobertrandite	$Be_3(SiO_4)(OH)_2$	P21/C	40	3.322	132.877	0.624	2003	97690
Sphaerocobaltite	$Co(CO_3)$	R3-CH	10	1.371	13.710	0.413	1986	61066
Sphalerite	ZnS	F4-3M	2	1.000	2.000	1.000	1994	41985

Spheniscidite	$(NH_4)(Fe_2(OH)(H_2O)(PO_4)_2)(H_2O)$	P121/N1	64	4.000	256.000	0.667	1999	89322
Spiroffite	$Mn_2(Te_3O_8)$	C12/C1	26	2.777	72.211	0.591	1996	82490
Spodiosite. arsenian	$Ca_2(AsO_4)Cl$	PBCM	32	2.500	80.000	0.500	1970	26234
Spodumene	$LiAl(Si_2O_6)$	C12/C1	20	2.522	50.439	0.584	1969	9668
Spodumene beta	$LiAl(Si_2O_6)$	P43212	40	2.522	100.877	0.474	1968	26817
Spriggite	$Pb_3((UO_2)_6O_8(OH)_2)(H_2O)_3$	C12/C1	140	5.186	726.100	0.727	2004	98806
Springcreekite	$Ba(V_{0.57}Fe_{0.43})_3(PO_4)_2((OH)_5(H_2O))$	R3-MH	20	2.333	46.664	0.540	1999	89037
Spurrite	$Ca_5(SiO_4)_2(CO_3)$	P121/A1	76	4.248	322.842	0.680	2005	156625
Squawcreekite	$(FeSb)O_4$	P42/MNM	6	0.918	5.510	0.355	2003	99789
Srebrodolskite	$Ca_2Fe_2O_5$	PCMN	36	2.503	90.117	0.484	1970	14296
Srilankite	$Pb_5(AsO_4)_3Cl$	PBCN	84	4.392	368.955	0.687	1990	69961
Stalderite	$TlCu(Zn_{1.16}Fe_{0.46}Hg_{0.38})As_2S_6$	I4-2M	24	2.418	58.039	0.527	1995	81209
Stanekite	$(Fe_{1.1}Mn_{0.81})O(PO_4)$	I12/A1	32	3.000	96.000	0.600	2006	156671
Stanfieldite	$Mg_3Ca_3(PO_4)_4$	C12/C1	156	5.311	828.523	0.729	1971	23642
Stannite	$Cu_{3.75}Hg_{1.75}Sn_2S_8$	I4-2M	8	1.750	14.000	0.583	1977	15826
Stannoidite	$Cu_{16}(Fe_{4.3}Zn_{1.7})Sn_4S_{24}$	I222	25	3.124	78.096	0.673	1976	41894
Stannomicrolite	$Sn_{1.76}Ta_{1.56}Sn_{0.44}O_{6.54}$	FD3-MZ	22	1.686	37.088	0.378	1975	38892
Starkeyite	$Mg(SO_4)(H_2O)_4$	P121/N1	72	4.170	300.235	0.676	1964	16579
Staurolite	$H_3Mg_{0.8}Mn_{0.08}Fe_{3.22}Al_{17.94}Ti_{0.16}Si_{7.48}O_{48}$	C12/M1	43	3.798	163.329	0.700	1972	9553
Staurolite	$FeAl_4Si_2O_{10}(OH)_2$	CCMM	38	3.090	117.421	0.589	1929	46194
Stavelotite-(La)	$La_3Mn_3Cu(Fe_7Mn_{19})(Si_2O_7)_6O_{30}$	P31	351	6.870	2411.498	0.813	2005	155053
Steenstrupine	$(Th_{0.42}Zr_{0.41}Ti_{0.1}Al_{0.07})(Mn_{1.49}Ca_{0.51})(Fe_{1.69}Mn_{0.31})(Na_{1.47}Ca_{0.53})(La_{1.99}Ce_{2.89}Pr_{0.23}Nd_{0.71}Y_{0.19})Na_{12}((P_{0.77}Si_{0.23})O_4)_6(Si_6O_{18})_2(PO_4)_{0.88}(OH)_2(H_2O)_{2.19}$	R3-MH	123	4.260	523.998	0.614	1983	158933

Steenstrupine-(Ce)	$(Na_{13.48}Ca_{0.52})(Ce_{3.9}La_{2.1})Fe_2Mn_2ZrH_{0.3}(Si_6O_{18})_2(OH)_2(PO_4)_{5.44}(SiO_4)_{1.38}(H_2O)_{2.19}$	R3-MH	123	4.260	523.998	0.614	1983	31272
Steklite	$KAl(SO_4)_2$	P321	12	1.959	23.510	0.546	1970	6305
Stellerite	$(Ca_{1.14}Na_{0.14})(Si_{14.04}Al_{3.96}O_{36})(OH)_{1.52}(H_2O)_{0.61}$	AMMA	120	4.207	504.827	0.609	2006	156602
Stellerite	$Ca_4(Si_{27.8}Al_{8.2}O_{72})(H_2O)_{28.8}$	FMMM	76	3.827	290.842	0.613	2007	158340
Stenhuggarite	$CaFe(AsO_2)(AsSbO_5)$	I41/AZ	96	3.585	344.156	0.544	1977	965
Stenonite	$Sr_2(AlF_5CO_3)$	P121/N1	48	3.585	172.078	0.642	1984	201803
Stephanite	$Ag_5(SbS_3)S$	CMC21	20	2.722	54.439	0.630	1970	36347
Stercorite	$Na(NH_4)(HPO_4)(H_2O)_4$	P-1	22	3.459	76.107	0.776	1974	2036
Sternbergite	$AgFe_2S_3$	CCMB	24	1.918	46.039	0.418	1987	68347
Steropesite	$Tl_3Bi(Cl_{5.15}Br_{0.85})$	C1C1	80	5.322	425.754	0.842	2009	163661
Stetefeldite	$Ag(SbO_3)$	FD3-MZ	20	1.371	27.419	0.317	1938	25541
Stetindite	$(Ce_{0.91}Y_{0.09})(SiO_4)$	I41/AMDZ	12	1.252	15.020	0.349	2009	167306
Steverustite	$Pb_5(OH)_5(Cu(S(O_3S))_3)(H_2O)_{1.67}$	P121/N1	116	4.858	563.526	0.708	2009	166777
Stewartite	$MnFe_2(OH)_2(H_2O)_6(PO_4)_2(H_2O)_2$	P-1	46	4.567	210.084	0.827	1974	6204
Stibarsen	AsSb	R3-MH	2	0.000	0.000	0.000	1938	42576
Stibiconite	$SbSb_2O_6(OH)$	FD3-MS	22	1.686	37.088	0.378	1943	77332
Stibiocolumbite	$Sb(NbO_4)$	PNA21	24	2.585	62.039	0.564	1981	20344
Stibiocolumbite	$SbNbO_4$	PNAN	24	1.918	46.039	0.418	1981	20345
Stibiopalladinite	$Pd_{4.67}Sb_{1.67}$	P63MC	20	1.771	35.419	0.410	1970	42680
Stibiotantalite	$Sb(TaO_4)$	PNA21	24	2.585	62.039	0.564	1938	25548
Stibivanite 2M	Sb_2VO_5	C12/C1	16	2.250	36.000	0.563	1980	27800
Stibivanite 2O	Sb_2VO_5	PMCN	32	2.250	72.000	0.450	1989	203130

Stibnite	Sb_2S_3	PNMA	20	2.322	46.439	0.537	1972	22176
Stichtite	$(Mg_{2.295}Cr_{0.705})(CO_3)_{0.353}(OH)_6(H_2O)_{1.84}$	R3-MH	6	1.918	11.510	0.742	2011	180083
Stilbite	$Na_{1.76}Ca_4(Al_{10.29}Si_{25.71}O_{72})(H_2O)_{29.4}$	C12/M1	73	4.436	323.857	0.717	1971	9094
Stilbite	$Na_{0.72}Ca_4(Al_{10}Si_{26}O_{72})(H_2O)_{29.12}$	FMMM	74	3.804	281.500	0.613	1993	66687
Stilleite	ZnSe	F4-3M	2	1.000	2.000	1.000	1993	41527
Stillwellite-(Ce)	$Ce(BSiO_5)$	P31	24	3.000	72.000	0.654	1992	67685
Stillwellite-(La)	$La(B_{0.95}SiO_{4.93})$	P31	24	3.000	72.000	0.654	1996	82701
Stilpnomelane (supercell. Fe(3+)-endmember)	$Fe_2(Si_3O_9)$	P-1	336	7.392	2483.819	0.881	1994	77420
Stishovite	SiO_2	P42/MNM	6	0.918	5.510	0.355	1971	9160
Stistaite	$Cu(Sb_{.115}Sn_{.835})$	P63/MMC	4	1.000	4.000	0.500	1981	108405
Stoiberite	$Cu_5V_2O_{10}$	P21/C	68	4.087	277.947	0.671	1973	2557
Stokesite	$CaSn(Si_3O_9)(H_2O)_2$	PNNA	64	3.250	208.000	0.542	1963	34348
Stolzite	$Pb(WO_4)$	I41/AZ	12	1.252	15.020	0.349	1970	16189
Stoppaniite	$(Fe_{0.61}Mg_{0.18}Al_{0.21})_4Na(Be_6(Si_{0.96}Be_{0.04})_{12})(O_{32.881}(OH)_{3.119})(H_2O)_2$	P6/MCC	62	2.348	145.572	0.394	1998	85697
Stornesite-(Y)	$(Y_{0.677}Yb_{0.06}Ca_{0.263})Na_{6.124}(Ca_{4.84}Na_{3.16})(Mg_{31.81}Fe_{11.19})(PO_4)_{36}$	R3-H	240	5.410	1298.282	0.684	2006	156573
Stottite	$Fe(Ge(OH)_6)$	P42/NZ	32	2.250	72.000	0.450	1988	202596
Straetlingite	$Ca_2Al((AlSi)_{1.11}O_2)(OH)_{12}(H_2O)_{2.25}$	R3-MH	24	2.876	69.020	0.627	1990	69413
Strakhovite	$NaBa_3Mn_4(Si_4O_{10}(OH)_2)(Si_2O_7)O_2F(H_2O)$	PNMA	148	4.453	658.999	0.618	1992	39582
Stranskiite	$Zn_2Cu(AsO_4)_2$	P-1	13	2.777	36.106	0.751	1979	100249
Strengite	$Fe(PO_4)(H_2O)_2$	PBCA	96	3.585	344.156	0.544	2004	54875
Stringhamite	$CaCu(SiO_4)(H_2O)$	P21/C	40	3.422	136.877	0.643	1985	30926

Stromeyerite	$CuAgS$	CMC21	6	1.585	9.510	0.613	1991	66580
Stromeyerite low	$CuAgS$	PMC21	12	2.585	31.020	0.721	1991	66581
Stronadelphite	$(Sr_{4.8}Ca_{0.2})(PO_4)_3F$	P63/M	42	2.653	111.419	0.492	2010	180378
Stronalsite	$SrNa_2(AlSiO_4)_4$	IBA2	54	3.792	204.764	0.659	2006	156656
Strontianite	$Sr(CO_3)$	PMCN	20	1.922	38.439	0.445	1971	15195
Strontioapatite. bromian	$Sr_5(PO_4)_3Br$	P63/M	42	2.653	111.419	0.492	1998	87102
Strontioborite	$Ca(B_8O_{11}(OH)_4)$	P1211	56	4.807	269.212	0.828	2005	250323
Strontiodresserite	$(Sr_{0.81}Ca_{0.19})Al_2(CO_3)_2(OH)_4(H_2O)$	PNMA	48	3.252	156.078	0.582	2010	180291
Strontioferrite	$SrFe_2O_4$	P1121/N	56	3.807	213.212	0.656	2001	94350
Strontioginorite	$SrCa(B_{14}O_{20}(OH)_6)(H_2O)_5$	P121/A1	252	5.977	1506.275	0.749	2005	171047
Strontium-melilite. germanian	$Sr_2Zn(Ge_2O_7)$	P4-21M	24	2.418	58.039	0.527	1982	39159
Strontiumosumilite (Mg)	$Sr_{0.91}Mg_2(Al_{5.82}Si_{9.18}O_{30})$	P6/MCC	96	2.432	233.510	0.369	1995	79844
Strueverite	$TiTaO_4$	P42/MNM	6	0.918	5.510	0.355	1972	9514
Strunzite	$MnFe_2(PO_4)_2(OH)_2(H_2O)_6$	P-1	42	4.392	184.477	0.815	1978	100409
Struvite	$Mg(NH_4)(PO_4)(H_2O)_6$	PMN21	58	4.237	245.763	0.723	1986	60626
Studenitsite	$NaCa_2(B_9O_{14}(OH)_4)(H_2O)_2$	P1121/B	160	5.322	851.508	0.727	1993	39758
Studtite	$((UO_2)O_2(H_2O)_2)(H_2O)_2$	C12/C1	30	2.974	89.207	0.606	2010	167992
Stuetzite	Ag_7Te_4	P6/MMM	55	2.712	149.142	0.469	1966	30391
Stuetzite	$Ag_{4.53}Te_3$	P6-2M	111	4.011	445.269	0.590	1996	405720
Stumpflite	Pt_2SbBi	P63/MMC	4	1.000	4.000	0.500	1962	42547
Sturmanite	$Ca_6(Fe_{0.6}Al_{0.2}Mn_{0.2})_2(SO_4)_{2.7}(B(OH)_3)_{0.3}(B(OH)_4)(OH)_{12}(H_2O)_{24}$	P31C	132	4.748	626.684	0.674	2004	54830
Suanite	$Mg_2(B_2O_5)$	P21/C	36	3.170	114.117	0.613	1995	81229

Sudburyite	$PdSb$	P63/MMC	4	1.000	4.000	0.500	1969	42598
Sudoite 1MIIb	$Al_2(Si_{3.3}Al_{.7})O_{10}(Mg_{2.32}Al_{.68})(OH)_8$	C12/M1	27	3.199	86.382	0.673	1967	16910
Sudoite 2M	$(Al_{3.05}Mg_{1.95})(Si_{2.88}Al_{1.12})O_{10}(OH)_8$	C12/C1	54	3.866	208.764	0.672	1973	21050
Sudovikovite	$PtSe_2$	P3-M1	3	0.918	2.755	0.579	1960	41374
Suessite	$(Fe_3Si)_{0.5}$	IM3-M	1	0.000	0.000	Nan	1982	109476
Sugilite	$Na_2KFe_{1.66}Al_{.34}Li_3Si_{12}O_{30}$	P6/MCC	100	2.577	257.739	0.388	1988	202624
Sulfoapatite	$Ca_{10}(PO_4)_6S_{0.95}$	P63	42	3.034	127.419	0.563	1986	202020
Sulfoborite	$Mg_3(B(OH)_4)_2(SO_4)(OH)F$	PNMA	116	4.099	475.526	0.598	1983	31195
Sulphohalite	$Na_6ClF(SO_4)_2$	FM3-M	18	1.864	33.549	0.447	1968	26914
Sulphur	S_8	FDDDZ	32	2.000	64.000	0.400	1972	27261
Sulphur epsilon	S_6	P3	18	2.585	46.529	0.620	1962	20710
Sulphur epsilon	S_6	R3-H	6	0.000	0.000	0.000	1978	37090
Sulphur gamma	S_8	P12/C1	32	3.000	96.000	0.600	1993	66517
Sulvanite	$Cu_3(VS_4)$	P4-3M	8	1.406	11.245	0.469	1998	402891
Suolunite	$Ca(SiO_3)(H_2O)$	FD2D	32	3.125	100.000	0.625	1999	87951
Suredaite	$(Pb_{0.92}Sn_{0.08})(Sn_{0.99}Fe_{0.01})S_3$	PNMA	20	2.322	46.439	0.537	2000	89709
Surinamite	$(Mg_{2.26}Fe_{0.74})(Fe_{0.39}Al_{2.61})O(AlBeSi_3O_{15})$	P12/N1	108	4.866	525.528	0.720	2002	94596
Surkhobite	$Na_{2.3}K_{1.3}Ca_{1.60}Sr_{0.1}Ba_{2.55}(Mn_{8.17}Fe_{7.83})(Ti_{7.2}Nb_{0.68}Zr_{0.12})(Si_2O_7)_8O_8(OH)_4F_8$	C121	121	5.960	721.182	0.861	2008	160473
Sursassite	$(Mn_{1.53}Ca_{0.47})(Mg_{0.28}Al_{2.54}Mn_{0.18})(SiO_4)(Si_2O_7)(OH)_3$	P121/M1	44	4.187	184.215	0.767	2009	165152
Susannite	$Pb_4SO_4(CO_3)_2(OH)_2$	P3	57	4.582	261.151	0.785	1999	87857
Sussexite M	$(Mn_{1.812}Mg_{0.188})(B_2O_4(OH)_2)$	P21/C	48	3.585	172.078	0.642	1995	78676
Svanbergite	$(Sr_{0.63}Ca_{0.34}Ba_{0.03})Al_3(PO_4)_{0.96}(SO_4)_{1.04}(OH)_6$	R3-MH	20	2.333	46.664	0.540	2009	166307

Sverigeite	$Na(Mg_{0.63}Mn_{1.37})SnBe_2Si_3O_{12}(OH)$	IMMA	44	3.278	144.215	0.600	1989	203151
Swartzite	$CaMg((UO_2)(CO_3)_3)(H_2O)_{12}$	P121/M1	106	4.973	527.160	0.739	1986	29557
Swedenborgite	$(Na_{0.89}Ca_{0.04})Be_4(SbO_3)O_4$	P63MC	26	2.603	67.682	0.554	2001	92821
Switzerite	$Mn_3(PO_4)_2(H_2O)_7$	P121/A1	80	4.322	345.754	0.684	1986	202111
Sylvanite	$AuAgTe_4$	P12/C1	12	1.918	23.020	0.535	1984	30874
Sylvine	KCl	FM3-M	2	1.000	2.000	1.000	1969	22156
Symesite	$Pb_{10}(SO_4)O_7Cl_4(H_2O)$	B1-	54	4.755	256.764	0.826	2000	89741
Synadelphite	$Na_{.55}(Ca_{.04}Al_{1.37}Mg_{3.01}Fe_{2.57})(Si_{5.95}Al_{2.05})O_{22}(OH)_2$	PNMA	160	4.472	715.508	0.611	1970	34833
Synchysite-(Ce)	$CeCaF(CO_3)_2$	C12/C1	66	4.135	272.930	0.684	1994	79161
Syngenite	$K_2Ca(SO_4)_2(H_2O)$	P121/M1	32	3.500	112.000	0.700	2005	157072
Szaibelyite	$Mg(BO_2(OH))$	P121/A1	40	3.322	132.877	0.624	2008	161275
Szenicsite	$Cu_3MoO_4(OH)_4$	PNNM	64	3.563	228.000	0.594	1998	86868
Szmikite	$Mn(SO_4)(H_2O)$	C12/C1	18	2.503	45.059	0.600	1991	71344
Szomolnokite	$Fe(SO_4)(H_2O)$	C12/C1	18	2.503	45.059	0.600	1991	71345
Szomolnokite	$Fe(SO_4)(H_2O)$	P-1	14	2.950	41.303	0.775	1994	79162
Szymanskiite	$(Hg_2)_8(Ni_{4.08}Mg_{1.92})(CO_3)_{12}(OH)_{12}(H_3O)_8(H_2O)_{2.8}$	P63	100	4.122	412.229	0.620	1990	69128
Tachyhydrite	$CaMg_2Cl_6(H_2O)_{12}$	R3-R	45	3.035	136.565	0.553	1980	16434
Tadzhikite-(Ce)	$Ca_4Ce_2Ti(B_4Si_4O_{22})(OH)_2$	P12/A1	78	4.362	340.261	0.694	1982	20528
Tadzhikite-(Y)	$(Ca_{1.96}Ce_{0.04})(Ca_{0.9}Y_{0.89}Na_{0.18}Ce_{0.03})(Ti_{0.56}Fe_{0.30}Al_{0.07}Mn_{0.04})Ce_{1.55}(B_4Si_4O_{16}(O_{4.68}(OH)_{1.32}))(OH)_2$	P12/A1	78	4.362	340.261	0.694	1998	85573
Taikanite	$BaSr_2(Mn_2Si_4O_{14})$	C121	23	3.654	84.042	0.808	1993	74006
Tainiolite. ferrous	$Cs_{0.986}(Fe_{2.025}Li_{0.975})(Si_4O_{10})F_2$	C12/M1	20	2.822	56.439	0.653	2007	158981
Takedaite	$Ca_3(BO_3)_2$	R3-CH	22	1.435	31.578	0.322	1975	1894

Takeuchiite	$Mg_{1.71}Mn_{1.29}BO_5$	PNNM	218	5.410	1179.464	0.696	1987	62366
Talc 1A	$Mg_3(OH)_2(Si_4O_{10})$	C1-	21	3.440	72.239	0.783	1981	100682
Talc 2M	$Mg_3(OH)_2(Si_4O_{10})$	C12/C1	38	3.301	125.421	0.629	1934	26741
Talmessite	$Ca_2(Mg_{0.65}Co_{0.35})(AsO_4)_2(H_2O)_2$	P-1	15	2.974	44.603	0.761	1977	200008
Talnakhite	$Cu_{18.32}Fe_{15.9}S_{32}$	I4-3M	36	2.537	91.323	0.491	1972	15242
Tamarugite	$NaAl(SO_4)_2(H_2O)_6$	P121/A1	72	4.170	300.235	0.676	1969	15187
Tancoite	$LiNa_2H(Al(PO_4)_2(OH))$	PBCB	136	4.264	579.895	0.602	1983	158936
Taniolite 1M	$K_{.967}(Mg_{.708}Li_{.292})(Mg_{.663}Li_{.337})_2Si_4O_{10}F_2$	C12/M1	20	2.822	56.439	0.653	1977	100162
Tantalite-(Fe)	$Fe_{0.791}Mn_{0.209}Nb_{1.898}Ta_{0.102}O_6$	PBCN	36	2.281	82.117	0.441	2005	171773
Tantalite-(Mn). niobian	$(Mn_{.97}Ti_{.02}Fe_{.01})(Ta_{.64}Nb_{.36})_2O_6$	PBCN	36	2.281	82.117	0.441	1976	40032
Tantalum	Ta	IM3-M	1	0.000	0.000	Nan	1920	53793
Tantite 12O	Ta_2O_5	PMM2	86	5.519	474.659	0.859	1992	66366
Tantite high	Ta_2O_5	I121	21	3.440	72.239	0.783	1971	24881
Tantite O11	Ta_2O_5	P2MM	78	5.362	418.261	0.853	1971	9112
Tanzanite	$Ca_2Al_3(SiO_4)_3(OH)$	PNMA	88	4.096	360.430	0.634	1987	62397
Tapiolite-(Fe)	$FeTa_2O_6$	P42/MNM	18	1.837	33.059	0.440	1996	40337
Taramellite	$Ba_4FeTi_3(B_2Si_8O_{27})O_2Cl_{0.95}$	PMMNZ	96	4.002	384.156	0.608	1980	100266
Taramite. magnesian	$Na(Na_{.73}Ca_{1.21}Fe_{.06})(Mg_{2.35}Fe_{1.41}Al_{1.20}Ti_{.04})(Si_{6.08}Al_{1.92})O_{22}(OH)_2$	C12/M1	43	3.798	163.329	0.700	1996	64885
Taranakite	$K_3Al_5(HPO_4)_6(PO_4)_2(H_2O)_{18}$	R3-CH	216	4.339	937.233	0.560	1998	85750
Tarapacaite	$K_2(CrO_4)$	PNMA	28	2.522	70.606	0.525	1978	2402
Tarbuttite	$Zn_2(PO_4)(OH)$	P-1	18	3.170	57.059	0.760	1985	62245

Taseqite	$(Ca_{4.98}Mn_{1.5}Sr_{0.3}Y_{0.14}Fe_{1.93}Nb_{1.27}Si_{0.45})(Na_{10.72}K_{0.17}Ca_{0.17}Sr_{3.57})(Zr_{2.88}Hf_{0.05}Sn_{0.03})Si_{24}O_{72}(O_{2.65}(OH)_{1.01}(H_2O)_{0.74})Cl_{1.74}$	R3MH	134	5.137	688.396	0.727	2004	151566
Tashelgite	$Ca_2Mg_2Fe_2(Al_{18}O_{32}(OH)_2)$	P1C1	96	5.585	536.156	0.848	2010	168691
Tassieite	$Na_{0.463}Ca_2(Fe_{3.315}Mg_{2.685})(PO_4)_6(H_2O)_2$	PBCA	180	4.514	812.534	0.603	2007	156779
Tausonite	$Sr(TiO_3)$	PM3-M	5	1.371	6.855	0.590	1978	23076
Tavorite	$LiFe(PO_4)(OH)$	P-1	19	3.406	64.711	0.802	1997	250117
Tazheranite	$Ca_{0.22}Ti_{0.22}Zr_{0.56}O_{1.78}$	FM3-M	3	0.918	2.755	0.579	1998	56300
Tazieffite	$Pb_{20.26}(NH_4)_{0.24}CdSn_{0.5}(As_{12.82}Bi_{9.18})S_{52}Cl_8$	C12/C1	208	5.739	1193.691	0.745	2009	165512
Teallite	$(Pb_{0.78}Sn_{1.22})(S_{1.86}Se_{0.14})$	PNMA	8	1.000	8.000	0.333	2002	95284
Tedhadleyite	$Hg_{11}O_4I_2(Cl_{1.19}Br_{0.81})$	A1-	19	3.301	62.711	0.777	2009	166771
Teepleite	$Na_2Cl(B(OH)_4)$	P4/NMMZ	24	2.085	50.039	0.455	1982	32518
Teineite	$Cu(TeO_3)(H_2O)_2$	P212121	28	2.807	78.606	0.584	1977	100418
Tellurantimony	Sb_2Te_3	R3-MH	5	1.522	7.610	0.655	1974	2084
Tellurite	TeO_2	PBCA	24	1.585	38.039	0.346	1967	26844
Tellurium	Te	P3121	3	0.000	0.000	0.000	1977	23058
Tellurobismuthite (metastable)	Bi_2Te_3	R3MH	5	2.322	11.610	1.000	1968	20289
Telluronevskite	$(Bi_{2.94}Te_{0.06})(Te_{0.95}Se_{0.05})(Se_{0.84}S_{0.16})_2$	P3-M1	12	2.585	31.020	0.721	2001	92917
Telluropalladinite	Pd_9Te_4	P21/C	52	3.700	192.423	0.649	1978	90787
Telluroperite	$Pb_2(PbTe)O_4Cl_2$	BMMB	10	1.922	19.219	0.579	2010	168639
Telyushenkoite	$(Cs_{0.74}Na_{0.10}K_{0.14}Rb_{0.02})Na_6(Be_2Al_{2.06}Zn_{0.30}Si_{15.64}O_{39}F_2)$	P3-M1	68	3.325	226.095	0.546	2002	94731
Tengerite-(Y)	$Y_2(CO_3)_3(H_2O)_2$	BB21M	32	3.125	100.000	0.625	1993	72940

Tennantite	$(Cu_{10.8}Fe_{1.2})As_4S_{13}$	I4-3M	29	2.029	58.842	0.418	2008	161360
Tenorite	CuO	C12/C1	4	1.000	4.000	0.500	1996	43179
Tephroite	$Mn_2(SiO_4)$	PBNM	28	2.522	70.606	0.525	1981	26376
Terlinguaite	$Hg_4O_2Cl_2$	C12/C1	16	2.250	36.000	0.563	1989	65483
Ternesite	$Ca_5(SiO_4)_2(SO_4)$	PNMA	80	3.522	281.754	0.557	1997	85123
Terranovaite	$Ca_{3.89}Na_{4.43}(Al_{12.30}Si_{67.70}O_{160})(H_2O)_{46.48}$	CMCM	158	4.886	771.997	0.669	1997	83466
Terskite	$Na_4ZrH_4(SiO_3)_6$	PNC2	116	4.892	567.526	0.713	1991	39454
Teruggite	$Ca_4Mg(B_6(OH)_6O_8(AsO_3))_2(H_2O)_{14}$	P121/A1	210	5.724	1201.992	0.742	1973	10265
Teschemacherite	$(NH_4)(HCO_3)$	PCCN	80	3.322	265.754	0.525	1981	100877
Testibiopalladite	$PdSbTe$	P213	12	1.585	19.020	0.442	2001	93906
Tetraauricupride	$AuCu$	P4/MMM	2	1.000	2.000	1.000	1983	611749
Tetradymite	$Bi_{14}Te_{13}S_8$	R3-H	35	2.799	97.976	0.546	1975	159356
Tetraferriannite 1M	$KFe_3(FeSi_3O_{10})(OH)_2$	C12/M1	20	2.822	56.439	0.653	1964	16596
Tetraferroplatinum	$FePt$	P4/MMM	2	1.000	2.000	1.000	1983	42589
Tetrahedrite	$Cu_{12}Sb_4S_{13}$	I4-3M	29	2.029	58.842	0.418	1964	25707
Tetranatrolite	$Na_2(Si(Si_{0.5}Al_{0.5})_4O_{10})(H_2O)_2$	I4-2D	46	2.871	132.084	0.520	1995	39904
Tetrarooseveltite	$Bi(AsO_4)$	I41/AS	12	1.252	15.020	0.349	1948	30636
Tetrataenite	$FeNi$	P1M1	4	2.000	8.000	1.000	1995	56386
Thadeuite	$Mg(Ca_{.95}Mn_{.05})(Mg_{.59}Fe_{.29}Mn_{.12})_2(PO_4)_2(OH)_2$	C2221	32	3.125	100.000	0.625	1982	17052
Thalcusite	$TlCu_2S_2$	I4/MMM	5	1.522	7.610	0.655	1989	40495
Thalenite-(Y)	$Y_3(Si_3O_{10})(OH)$	P1121/N	68	4.087	277.947	0.671	1972	20044
Thaumasite	$(Ca_3Si(OH)_6(H_2O)_{11.67})(SO_4)(CO_3)$	P63	62	3.574	221.572	0.600	2006	157088
Thenardite	$Na_2(SO_4)$	FDDDZ	14	1.379	19.303	0.362	1996	81506

Theoparacelsite	$CuO_{0.333}(AsO_3(OH))_{0.667}$	PMMA	10	1.922	19.219	0.579	2001	92971
Theophrastite	$Ni(OH)_2$	P3-M1	3	0.918	2.755	0.579	2005	109391
Thermessaite	$K_2(AlF_3(SO_4))$	PBCN	44	2.732	120.215	0.500	2008	161272
Thermonatrite	$Na_2(CO_3)(H_2O)$	P21AB	36	3.170	114.117	0.613	1975	1852
Thiospinel	$CuZr_{1.86}S_4$	R3-MH	28	2.860	80.077	0.595	2010	420857
Thomasclarkite-(Y)	$(Na_{0.8}Ce_{0.2})(Y_{0.5}Ce_{0.5})(HCO_3)(OH)_{3.4}(H_2O)_{3.6}$	P121	15	3.240	48.603	0.829	1998	76898
Thometzekite. sulfatian	$Pb(Cu_{1.5}Zn_{0.5})(AsO_4)_{1.32}(SO_4)_{0.68}(OH)_{0.68}(H_2O)_{1.32}$	C12/M1	15	2.707	40.603	0.693	1998	76615
Thomsenolite	$NaCa(AlF_6)(H_2O)$	P21/C	48	3.585	172.078	0.642	1985	60801
Thomsonite	$NaCa_2(Al_5Si_5O_{20})(H_2O)_6$	PBMN	78	3.696	288.261	0.588	1978	20007
Thoreaulite	$Sn(Ta_2O_6)$	C12/C1	18	2.281	41.059	0.547	2009	163816
Thorianite	ThO_2	FM3-M	3	0.918	2.755	0.579	1966	61586
Thorikosite	$(Pb_3Sb_{0.6}As_{0.4})O_3(OH)Cl_2$	I4/MMM	5	1.522	7.610	0.655	1985	62160
Thorite	$Th(SiO_4)$	I41/AMDZ	12	1.252	15.020	0.349	1978	1615
Thornasite	$Na_{12}Th_3(Si_8O_{19})_4(H_2O)_{18}$	R3-CH	282	4.681	1319.904	0.575	2000	89792
Thorneite	$Pb_6(Te_2O_{10})(CO_3)(Cl_{1.50}(OH)_{0.50})(H_2O)$	C12/C1	48	3.668	176.078	0.657	2010	168635
Thortveitite	$Sc_2(Si_2O_7)$	C12/M1	11	2.187	24.054	0.632	1972	16214
Thorutite	$ThTi_2O_6$	C12/M1	9	2.281	20.529	0.720	1999	89068
Threadgoldite	$Al(UO_2)_2(PO_4)_2(OH)(H_2O)_8$	C12/C1	104	4.700	488.846	0.702	1982	158904
Tialite	Al_2TiO_5	CCMM	16	2.250	36.000	0.563	1958	24133
Tiemannite	HgSe	FM3-M	2	1.000	2.000	1.000	1986	56212
Tienshanite	$Na_2BaMnTi(B_2Si_6O_{20})$	P6/M	206	4.402	906.842	0.573	1998	76913
Tikhonenkovite	$Sr_2(Al_2F_8(OH)_2)(H_2O)_2$	P21/C	32	3.000	96.000	0.600	1973	23025
Tilasite	$Ca_{0.96}Mg_{0.96}(As_{0.94}O_4)F_{0.98}$	C12/C1	16	2.500	40.000	0.625	1994	75618

Tilleyite	$Ca_5(Si_2O_7)(CO_3)_2$	P121/A1	88	4.459	392.430	0.690	2005	156626
Tillmannsite	$(Ag_3Hg)(V_{0.7}As_{0.3}O_4)$	I4-	9	1.392	12.529	0.439	2003	97693
Timroseite	$Pb_2Cu_5(TeO_6)_2(OH)_2$	P21NM	48	3.835	184.078	0.687	2010	168636
Tin	Sn	I41/AMDS	2	0.000	0.000	0.000	1953	40037
Tin grey	Sn	FD3-MS	2	0.000	0.000	0.000	1953	70128
Tinaksite	$K_2Ti_{0.95}Ca_{1.85}Na_{0.98}Fe_{0.11}Mn_{0.07}Mg_{0.02}(Si_7O_{18})(OH)O_{1.02}$	P-1	68	5.087	345.947	0.836	1991	39551
Tincalconite	$Na_2(B_4O_5(OH)_4)(H_2O)_{2.668}$	R32H	90	4.071	366.375	0.627	1991	66529
Tinsleyite	$K(Al_2(PO_4)_2(OH)(H_2O))(H_2O)$	P121/N1	84	4.392	368.955	0.687	1999	407356
Tinticite	$Fe_{5.34}(PO_4)_{3.62}(VO_4)_{0.38}(OH)_4(H_2O)_{6.8}$	P-1	41	4.382	179.660	0.818	2000	90039
Tinzenite	$MnCa_2Al_2BSi_4O_{15}(OH)$	P-1	50	4.644	232.193	0.823	1997	85086
Tiptopite	$K_2(Li_{2.88}Na_{1.68}Ca_{0.66})(Be_6P_6O_{24})(OH)_2(H_2O)_{4.02}$	P63	46	3.076	141.515	0.557	1987	202308
Tiragalloite	$Mn_4(AsSi_3O_{12}(OH))$	P121/N1	88	4.459	392.430	0.690	1979	8188
Tirodite	$(Na_{0.3}K_{0.03})(Na_{0.87}Ca_{0.39}Mn_{0.74})(Mg_{3.84}Fe_{0.72}Mn_{0.38}Li_{0.06})(Si_{7.88}Al_{0.12}O_{22})F_{0.4}(OH)_{1.66}$	C12/M1	42	3.773	158.477	0.700	1993	41309
Tisinalite	$Na_{2.08}(Mn_{0.42}Ca_{0.1267})(Ti_{0.4667}Zr_{0.14}Nb_{0.1333}Fe_{0.12})Si_6O_{12.6}(OH)_{5.4}$	P3-	78	3.935	306.899	0.626	2003	250068
Titanite	$CaTi(SiO_4)O$	P121/A1	32	3.000	96.000	0.600	1976	9837
Titanite	$Ca(TiO)(SiO_4)$	A12/A1	16	2.500	40.000	0.625	2000	89759
Titanomaghemite	$Fe(Fe_{0.92}Ti_{0.61})O_4$	FD3-MZ	14	1.379	19.303	0.362	1997	77757
Titanomaghemite C	$Fe_{0.96}(Fe_{1.217}Ti_{0.415})O_4$	P4332	56	2.074	116.153	0.357	1988	202597
Tivanite	$VTiO_3(OH)$	P21/C	24	2.585	62.039	0.564	1981	100875
Tobermorite	$Na_{0.5}Tb_{4.5}(SiO_4)_3O$	P63/M	42	2.653	111.419	0.492	2009	173865

Tobermorite 1.1 nm (Al-bearing)	$Ca_{4.9}(Si_{5.5}Al_{0.5}O_{16.3})(OH)_{0.7}(H_2O)_5$	B11M	33	4.196	138.465	0.832	2001	93590
Tobermorite 11 A	$Ca_4(Si_6O_{15})(OH)_2(H_2O)_5$	F2DD	64	4.063	260.000	0.677	2001	92941
Tobermorite 9A	$Ca_5(Si_6O_{16})(OH)_2$	C1-	29	3.892	112.881	0.801	1999	87689
Tobermorite M	$Ca_{2.25}(Si_3O_{7.5}(OH)_{1.5})(H_2O)$	P1121	64	5.000	320.000	0.833	1981	40048
Tobermorite O (subcell)	$Ca_{2.25}(Si_3O_{7.5}(OH)_{1.5})(H_2O)$	IMM2	20	3.722	74.439	0.861	1981	100405
Tochilinite	$((Mg_{0.71}Fe_{0.29})(OH)_2)_5(Fe_{0.88}S)_6$	C1	27	4.755	128.382	1.000	1972	9493
Tochilinite II (acicular variety)	$(Mg_{0.7}Fe_{0.3}(OH)_2)_{0.833}(Fe_{0.8}S)$	P1	18	4.170	75.059	1.000	1973	9509
Todorokite	$Ca_{0.8}(Mn_4O_8)(H_2O)_2$	P12/M1	18	3.281	59.059	0.787	1991	54113
Toernebohmite-(Ce)	$Ce_2Al(SiO_4)_2(OH)$	P21/C	56	3.807	213.212	0.656	1996	82935
Tokkoite	$(K_{1.85}Na_{0.15})(Ca_{3.6}Fe_{0.4})(Si_7O_{18}(OH))(OH)$	P-1	68	5.087	345.947	0.836	1989	67211
Tolbachite	$CuCl_2$	C12/M1	3	0.918	2.755	0.579	1993	66645
Tolovkite	IrSbS	P213	12	1.585	19.020	0.442	1989	41400
Tolovkite	IrSbS	PCA21	12	1.585	19.020	0.442	1989	74630
Tomichite	$V_3Fe(AsTi_3O_{13})(OH)$	P121/M1	44	3.641	160.215	0.667	1987	202164
Tomichite. barian	$(Ba_{0.35}As_{0.94})(Ti_{2.41}V_{2.3}Fe_{2.3})O_{13}(OH)$	A12/M1	23	3.045	70.042	0.673	1987	202163
Tongbaite	Cr_3C_2	PNAM	20	2.322	46.439	0.537	2004	151477
Tooeleite	$Fe_6(AsO_3)_4(SO_4)(OH)_4(H_2O)_4$	C12/M1	20	3.022	60.439	0.699	2007	156179
Topaz	$Al_2F_{1.44}(OH)_{0.56}(SiO_4)$	PBNM	44	2.732	120.215	0.500	1979	34064
Torbernite	$Cu((UO_2)(PO_4))_2(H_2O)_{12}$	P4/NNCZ	106	3.162	335.160	0.470	2003	97284
Tourmaline	$(Na_{0.64}Ca_{0.29}K_{0.01})(Mg_{1.28}Fe_{1.15}Al_{0.54}Mn_{0.02}Ti_{0.01})(Al_{4.74}Mg_{0.96}Fe_{0.3})(BO_3)_3(Si_6O_{18})(OH)_3((O_{0.38}(OH)_{0.54}F_{0.08}))$	R3MH	50	3.522	176.115	0.624	2008	161638

Townendite	$Na_{5.1}(Na_{0.66}Mn_{0.08}Fe_{0.06}Y_{0.07}Ca_{0.08})_2(Zr_{0.67}Sn_{0.04}U_{0.02}Ti_{0.01})Si_6O_{16.6}(OH)_{1.4}$	R3-MH	33	2.816	92.916	0.558	2010	168092
Traskite	$Ba_{24}Ti_6Fe_2Fe_8Ca(Si_{12}O_{36})(Si_2O_7)_6Cl_6(OH)_{30}(H_2O)_{14}$	P6-M2	193	4.863	938.541	0.640	1976	34076
Trattnerite	$K_{0.05}(Fe_{1.29}Mg_{0.71})(Mg_{1.87}Fe_{1.13})(Si_{12}O_{30})$	P6/MCC	96	2.432	233.510	0.369	2004	54885
Trechmannite	$AgAsS_2$	R3-H	24	2.000	48.000	0.436	1969	18101
Trembathite	$(Mg_{1.55}Fe_{1.43}Mn_{0.021})B_7O_{13}Cl$	R3CH	48	3.198	153.510	0.573	1998	87428
Tremolite	$Ca_2Mg_5(OH)_2(Si_8O_{22})$	C12/M1	41	3.699	151.660	0.690	1969	9659
Trevorite	$Ni(Fe_2O_4)$	FD3-MZ	14	1.379	19.303	0.362	2007	158834
Tridymite	$Ni_{11}As_8$	C1C1	76	3.406	258.842	0.545	1976	34853
Tridymite	SiO_2	C2221	12	1.918	23.020	0.535	1986	40895
Tridymite	SiO_2	P63/MMC	12	1.459	17.510	0.407	1986	40896
Tridymite	SiO_2	P212121	72	4.170	300.235	0.676	2001	94091
Tridymite 2H low (subcell)	SiO_2	P6322	12	1.459	17.510	0.407	1960	29343
Tridymite low	SiO_2	C1C1	72	5.170	372.235	0.838	1976	176
Tridymite O	SiO_2	CC2M	12	1.918	23.020	0.535	1981	30795
Trigonite	$Pb_3Mn(AsO_3)_2(AsO_2(OH))$	P1N1	32	4.000	128.000	0.800	1978	100410
Trikalsilite	$(K_{0.667}Na_{0.333})(AlSiO_4)$	P63	126	4.468	562.942	0.640	1988	40445
Trimerite	$CaMn_2(BeSiO_4)_3$	P121/N1	84	4.392	368.955	0.687	1977	100082
Trimounsite-(Y)	$(Y_{1.534}Er_{0.466})(Ti_2SiO_9)$	P21/C	56	3.807	213.212	0.656	2001	93000
Trinepheline	$Na_{7.85}(Al_{7.85}Si_{8.15}O_{32})$	P1121	168	6.392	1073.909	0.865	2008	160812
Triphylite	$LiFe(PO_4)$	PNMA	28	2.522	70.606	0.525	1990	56291
Triplite	$Mn_2F(PO_4)$	I12/C1	32	3.000	96.000	0.600	1968	16930
Triploidite	$Mn_{1.5}Fe_{0.5}(PO_4)(OH)$	P121/A1	128	5.000	640.000	0.714	1970	40033

Trippkeite	$Cu(As_2O_4)$	P42/MBC	28	1.950	54.606	0.406	1975	4287
Tripuhyite	$(FeSb)O_4$	P42/MNM	18	1.837	33.059	0.440	2003	99791
Troegerite (deuterated)	$H(UO_2)(AsO_4)(H_2O)_4$	P4/NCCZ	124	4.954	614.320	0.712	1983	35245
Troemelite	$Ca_4(P_6O_{19})$	P-1	58	4.858	281.763	0.829	2005	414341
Trogtalite	$NiS_{1.968}$	PA3-	12	0.918	11.020	0.256	1991	86356
Troilite 2H	FeS	P6-2C	24	1.730	41.510	0.377	1970	31963
Trolleite	$Al_4(OH)_3(PO_4)_3$	I12/C1	50	3.764	188.193	0.667	1974	6193
Trona	$Na_3H(CO_3)_2(H_2O)_2$	C12/C1	38	3.301	125.421	0.629	1986	62200
Tsaregorodtsevite	$(N(CH_3)_4)(AlSi_5O_{12})$	I222	31	3.212	99.580	0.648	1993	56289
Tschermakite	$(K_{0.05}Na_{0.41})(Ca_{1.80}Na_{0.05}Fe_{0.15})(Mg_{3.66}Fe_{0.34}Al_{0.81}Cr_{0.19})((Si_{6.44}Al_{1.56})O_{22}(OH)_2)$	C12/M1	38	3.669	139.421	0.699	2009	164857
Tschermigite	$(NH_4)Al(SO_4)_2(H_2O)_{12}$	PA3-	224	3.485	780.535	0.446	1981	100857
Tschernichite	$Ca_{8.66}(Al_{17.32}Si_{46.68}O_{128})(H_2O)_{37.12}$	C12/C1	134	5.111	684.856	0.723	2002	97105
Tschernichite	$Ca_{4.84}Mg_{0.64}(Al_{10.96}Si_{53.04}O_{128})(H_2O)_{33.36}$	P4122	264	5.166	1363.720	0.642	2002	97106
Tschoertnerite	$Ca_4(Sr_{1.03}K_{0.65}Ba_{1.32})Cu_3(Si_{12}Al_{12}O_{48})(OH)_8(H_2O)_{20.465}Cl_{0.056}$	FM3-M	505	4.222	2132.228	0.470	1998	85550
Tsepinite (Sr-rich)	$Sr_{1.3}Ba_{0.3}K_{0.8}(Na_{0.4}Ca_{0.4})(Ti_{5.6}Nb_{2.4})(Si_4O_{12})_4(OH)_8(H_2O)_8$	C1M1	48	4.710	226.078	0.843	2003	250109
Tsepinite-(Ca)	$(Ca_{1.10}K_{0.55}Na_{0.70}Sr_{0.34}Ba_{0.27}Mn_{0.025}Zn_{0.02}Fe_{0.005})(Ti_{3.20}Nb_{0.80})Si_8O_{24}((OH)_{2.42}O_{1.58})(H_2O)_{7.065}$	C12/M1	53	4.068	215.580	0.710	2003	99792
Tsepinite-(K)	$Na_{1.92}(K_{2.58}(H_3O)_{1.36})(Ba_{1.51}K_{0.91})(Mn_{0.3}Zn_{0.2}(H_2O))(Ti_{6.56}Nb_{1.44})(O_{5.18}(OH)_{2.82})(Si_4O_{12})_4(H_2O)_8$	C1M1	50	4.804	240.193	0.851	2002	97686
Tsumcorite	$K(Al_{0.63}Li_{0.37})_2(Li_{0.95}Al_{0.05})((Si_{3.36}Al_{0.64})O_{10})(F_{1.53}(OH)_{0.47})$	C12/M1	40	3.422	136.877	0.643	1973	34737
Tsumebite	$Pb_2Cu(PO_4)(SO_4)(OH)$	P121/M1	28	3.522	98.606	0.733	1967	76613

Tsumoite	$BiTe$	P3-M1	12	2.585	31.020	0.721	1979	30525
Tugarinovite	MoO_2	P21/C	12	1.585	19.020	0.442	1995	80830
Tugtupite	$Na_8(Al_2Be_2Si_8O_{24})Cl_2$	I4-	23	2.784	64.042	0.616	2004	55253
Tuhualite	$Na_2Fe_4(Si_{12}O_{30})(H_2O)$	CMCA	96	3.835	368.156	0.582	1969	17017
Tulameenite	$CuFePt_2$	P4/MMM	4	1.500	6.000	0.750	1986	627330
Tuliokite	$Na_6BaTh(CO_3)_6(H_2O)_6$	R3-H	38	2.799	106.363	0.533	1990	39256
Tumchaite	$Na_2(Zr_{0.8}Sn_{0.2})Si_4O_{11}(H_2O)_2$	P21/C	48	3.668	176.078	0.657	2000	89740
Tundrite-(Ce)	$Na_2Ce_2(TiO_2)(SiO_4)(CO_3)_2(H_2O)_{0.11}$	P-1	44	4.505	198.215	0.825	2008	160432
Tunellite	$Sr(B_2O_3)_3(OH)_2(H_2O)_3$	P121/A1	116	4.858	563.526	0.708	1994	27473
Tungstenite 2H	WS_2	P63/MMC	6	0.918	5.510	0.355	1987	202366
Tungstenite 3R	WS_2	R3MH	3	1.585	4.755	1.000	1987	202367
Tungstite	$WO_3(H_2O)$	PMNB	28	2.522	70.606	0.525	1984	201806
Tunisite	$NaCa_2Al_4(CO_3)_4(OH)_8Cl$	P4/NMMZ	80	3.272	261.754	0.518	1981	100720
Tuperssuatsiaite	$(Na_{1.88}Fe_{1.09}Mn_{1.91})(Si_8O_{20})(OH)_2(H_2O)_6$	C12/M1	41	3.699	151.660	0.690	2002	95344
Turanite	$Cu_5(VO_4)_2(OH)_4$	P-1	23	3.567	82.042	0.789	2004	54831
Turkestanite	$Th(Ca_{0.70}Na_{0.25})_2K_{0.53}(Si_8O_{20})$	P4/MCC	64	2.438	156.000	0.406	1998	87539
Turneaureite	$Ca_5(AsO_4)_3Cl$	P63/M	44	2.708	119.156	0.496	1996	83661
Turquoise	$Cu_{0.904}Al_6(PO_4)_4(OH)_8(H_2O)_4$	P-1	56	4.843	271.212	0.834	2000	91740
Turtmannite	$(Mn_{19.50}Mg_{4.44})(V_{2.38}As_{1.12}Si_{2.76})O_{27.3}(OH)_{21.3}$	R3-CH	310	5.038	1561.698	0.609	2001	92970
Tuscanite	$KCa_{5.8}((Al_{3.7}Si_{6.3})O_{22})(SO_4)_{1.9}$	P121/A1	100	4.644	464.386	0.699	1977	9683
Tusionite	$MnSn(BO_3)_2$	R3-H	10	1.571	15.710	0.473	1994	79165
Tuzlaite	$NaCa(B_5O_8(OH)_2)(H_2O)_3$	P21/C	112	4.807	538.424	0.706	1994	75289
Tvalchrelidzeite	Hg_3SbAsS_3	P121/N1	32	3.000	96.000	0.600	2007	159088

Tveitite-(Y)	$(Y_{5.3}Na_{0.66})(Ca_{5.05}Nd_{0.95})(Ca_{4.3}Na_{1.22}Ho_{0.48})(Ca_{0.09}Na_{0.07})F_{41}$	R3-H	71	3.690	262.025	0.600	2007	240741
Tychite	$Na_6Mg_2(SO_4)(CO_3)_4$	FD3-Z	58	2.219	128.704	0.379	2006	249169
Tyrolite 1M	$Ca_2Cu_9(AsO_4)_4(OH)_8(CO_3)_{0.76}(H_2O)_{10}$	P12/C1	112	4.843	542.424	0.711	2006	156568
Tyrolite 2M	$Ca_2Cu_9(AsO_4)_4(OH)_8(H_2O)_{13.42}$	C12/C1	110	4.800	527.950	0.708	2006	156569
Tyrrellite	$Cu(Co_{1.36}Ni_{0.64})Se_4$	FD3-MZ	14	1.379	19.303	0.362	2007	249330
Tysonite-(La)	$(La_{0.5}Ce_{0.5})F_3$	P63/MMC	8	1.500	12.000	0.500	1952	24747
Tysonite-(La)	LaF_3	P3-C1	24	1.730	41.510	0.377	2009	164053
Tysonite-(La)	LaF_3	FM3-M	4	1.500	6.000	0.750	2009	164054
Tysonite-(La)	LaF_3	CMMA	16	2.500	40.000	0.625	2009	164055
Tysonite-(La)	LaF_3	I4/MMM	4	1.500	6.000	0.750	2009	164056
Uedaite-(Ce)	$(Mn_{0.65}Ca_{0.35})(Ce_{0.914}Fe_{0.086})(Al_{1.986}Fe_{1.014})(Si_2O_7)(SiO_4)O(OH)$	P121/M1	42	4.107	172.477	0.762	2008	160477
Uklonskovite	$NaMg(SO_4)F(H_2O)_2$	P121/M1	28	3.236	90.606	0.673	1985	201712
Ulexite	$NaCa(B_5O_6(OH)_6)(H_2O)_5$	P-1	80	5.322	425.754	0.842	1978	100565
Ullmannite. cobaltian	$(Ni_{0.86}Co_{0.14})SbS$	P213	12	1.585	19.020	0.442	1980	100259
Ulrichite	$CaCu(UO_2)(PO_4)_2(H_2O)_4$	P21/C	76	4.301	326.842	0.688	2001	94060
Ulvoespinel	$Fe_2(TiO_4)$	FD3-MZ	14	1.379	19.303	0.362	1978	9806
Umangite	Cu_3Se_2	P4-21M	10	1.522	15.219	0.458	2002	94687
Umbite	$K_2(Zr_{0.86}Ti_{0.14})(Si_3O_9)(H_2O)$	P212121	64	4.000	256.000	0.667	1993	39697
Umohoite	$((UO_2)(H_2O))(MoO_4)(H_2O)$	P-1	40	4.322	172.877	0.812	2000	89864
Ungarettiite	$(Na_{0.80}K_{0.15})(Na_{1.97}Ca_{0.03})(Mn_{0.93}Mg_{0.07})(Mn_{1.78}Mg_{0.22})Mn_2(Si_8O_{22})O_{1.8}(OH)_{0.2}$	C12/M1	40	3.672	146.877	0.690	1995	79738
Ungemachite	$K_3Na_8Fe(SO_4)_6(NO_3)_2(H_2O)_6$	R3-H	68	3.678	250.095	0.604	1986	201917

Ungursaite	$(Ca_{0.94}Na_{0.06})((Ta_{3.86}Nb_{0.13})O_{10.97})$	P6322	32	2.311	73.961	0.462	1988	65336
Upalite	$Al((UO_2)_3O(OH)(PO_4)_2)(H_2O)_7$	P121/A1	116	4.892	567.526	0.713	1983	40130
Uralborite	$Ca_2(B_4O_4(OH)_8)$	P1121/N	104	4.700	488.846	0.702	1977	200158
Uralolite	$Ca_2Be_4(PO_4)_3(OH)_3(H_2O)_5$	P121/N1	116	4.858	563.526	0.708	1994	78418
Uramarsite	$(UO_2)_2(AsO_4)(PO_4)(NH_4)(H_3O)(H_2O)_6$	P1	24	4.585	110.039	1.000	2008	246241
Uramphite (deuterated)	$(ND_4)(UO_2)(PO_4)(D_2O)_3$	P4/NCCZ	96	2.918	280.156	0.443	1983	37076
Uraninite	UO_2	FM3-M	3	0.918	2.755	0.579	1983	77701
Uranmicrolite	$U(Ta_2O_7)$	FD3-MS	22	1.686	37.088	0.378	1960	27778
Uranophane alpha	$Ca(UO_2)_2(SiO_3OH)_2(H_2O)_5$	P1211	68	5.087	345.947	0.836	1988	63029
Uranophane alpha	$Ca(UO_2)_2(SiO_3OH)_2(H_2O)_5$	P1121/B	46	3.567	164.084	0.646	2001	92996
Uranophane beta	$Ca(UO_2)_2(SiO_3(OH))_2(H_2O)_5$	P121/A1	84	4.392	368.955	0.687	2003	250001
Uranopilite	$((UO_2)_6(SO_4)O_2(OH)_6(H_2O)_6)(H_2O)_8$	P-1	90	5.492	494.267	0.846	2001	92804
Uranopolycrase	$(U_{0.46}Y_{0.42}Th_{0.06}Mn_{0.06})(Ta_{0.16}Ti_{0.96}Nb_{0.84})O_6$	PBCN	36	2.281	82.117	0.441	1993	66690
Uranospathite	$Al_{0.86}((UO_2)(PO_4))_2(H_2O)_{20.42}F_{.58}$	PNN2	76	4.301	326.842	0.688	2005	171045
Uranosphaerite	$Bi(UO_2)O_2(OH)$	P121/N1	28	2.807	78.606	0.584	2003	97296
Uricite	$C_5H_4N_4O_3$	P121/A1	48	3.585	172.078	0.642	1966	56916
Urusovite	$Cu(AlAsO_5)$	P21/C	32	3.000	96.000	0.600	2000	91551
Urvantsevite	$PdBi_2$	I4/MMM	3	0.918	2.755	0.579	1957	56280
Ushkovite	$(Mg(H_2O)_4)(Fe_2(PO_4)_2(OH)_2(H_2O)_2)(H_2O)_2$	P-1	41	4.431	181.660	0.827	2002	95364
Usovite	$Ba_2CaCr_2CuF_{14}$	C12/C1	40	3.422	136.877	0.643	2008	419545
Ussingite	$Na_2(AlSi_3O_8)(OH)$	P-1	32	4.000	128.000	0.800	1974	6265
Uvarovite	$Ca_3Cr_2(SiO_4)_3$	IA3-D	80	1.595	127.637	0.252	1996	77430

Uvite	$(Na_{0.42}Ca_{0.54})(Mg_{3.01}Li_{0.006}Fe_{0.02})(Al_{5.46}Mg_{0.5}Ti_{0.05})(BO_3)_3((Si_{5.99}Ti_{0.01})O_{18})(OH)_3(O_{0.17}(OH)_{0.14}F_{0.69})$	R3MH	53	3.637	192.747	0.635	1993	74189
Uzonite	As_4S_5	P121/M1	18	2.503	45.059	0.600	2003	98901
Vaesite	NiS_2	PA3-	12	0.918	11.020	0.256	1980	646354
Vaestmanlandite-(Ce)	$Ce_3(Ca_{0.92}Ce_{0.08})(Mg_{0.81}Fe_{0.19})(Mg_{0.75}Fe_{0.25})(Al_{1.92}Fe_{0.08})Si_5O_{19}(OH)_2(F_{0.46}O_{0.54})$	P121/M1	70	4.786	335.050	0.781	2005	152330
Vaeyrynenite	$(Mn_{0.776}Fe_{0.229}Mg_{0.007})Be(PO_4)((OH)_{0.92}F_{0.08})$	P121/A1	40	3.322	132.877	0.624	2000	90830
Valentinite	$(Cl_6Re_6Te_4Cl_4)$	PCCN	40	4.322	172.877	0.812	2004	203207
Valleriite	$Cu_2(Fe_4S_7)$	PMMA	26	2.624	68.211	0.558	1939	15973
Valleriite	$(Fe_{1.07}Cu_{0.93}S_2)(Mg_{0.68}Al_{0.32}(OH)_2)_{1.526}$	R3-MH	4	1.000	4.000	0.500	1968	22307
Vanadinite	$Pb_5(VO_4)_3Cl$	P63/M	42	2.653	111.419	0.492	2006	160601
Vanadiocarpholite	$K_{.084}(Mn_{0.92}Mg_{.08})(V_{0.84}Al_{.16})(Al_{.85}V_{.15})(Si_2O_6)(OH)_4$	CCCAZ	70	3.358	235.050	0.548	2005	172129
Vanadoandrosite-(Ce)	$(Mn_{0.62}Ca_{0.38})((Ce_{0.39}La_{0.15}Nd_{0.10}Sm_{0.02})Sr_{0.11}Ca_{0.21})(V_{0.80}Al_{0.16}Ti_{0.01}Mg_{0.03})Al(Mn_{0.36}V_{0.31}Fe_{0.33})(Si_2O_7)(SiO_4)O(OH)$	P121/M1	42	4.107	172.477	0.762	2006	156790
Vanadomalayaite	$Ca(V_{0.7}Ti_{0.3}O)(SiO_4)$	C12/C1	16	2.500	40.000	0.625	1994	75619
Vandenbrandeite	$Cu(UO_2)(OH)_4$	P-1	16	3.000	48.000	0.750	1977	1041
Vandendriesscheite	$Pb_{1.57}((UO_2)_{10}O_6(OH)_{11})(H_2O)_{11}$	PBCA	480	5.907	2835.307	0.663	1997	77514
Vanmeerscheite	$U(UO_2)_3(PO_4)_2(OH)_6(H_2O)_4$	P21MN	104	4.893	508.846	0.730	1982	41164
Vanthoffite	$Na_6Mg(SO_4)_4$	P21/C	54	3.792	204.764	0.659	1964	16607
Varennesite	$Na_8Mn_2(Si_{10}O_{25})(Cl_{0.76}(OH)_{1.24})(H_2O)_{12}$	CMCM	118	4.323	510.152	0.628	1995	81583
Variscite 1O	$Al(PO_4)(H_2O)_2$	PBCA	96	3.585	344.156	0.544	1977	819
Vasilite	$Pd_{16}S_7$	I4-3M	23	1.751	40.267	0.387	1976	32053
Vasilyevite	$(Hg_2)_{10}O_6I_3(Br_{1.64}Cl_{1.36})((CO_3)_{0.8}S_{0.2})$	P-1	72	5.170	372.235	0.838	2003	55303

Vaterite	$Ca(CO_3)$	P63/MMC	86	2.064	177.522	0.321	1969	18127
Vaterite	$Ca(CO_3)$	PBNM	20	1.922	38.439	0.445	2007	157302
Vaterite	$Ca(CO_3)$	P6522	90	3.240	291.620	0.499	2009	162480
Vauquelinite	$Pb_2Cu(CrO_4)(PO_4)(OH)$	P121/N1	56	3.879	217.212	0.668	1968	26815
Vauxite	$FeAl_2(PO_4)_2(OH)_2(H_2O)_6$	P-1	42	4.488	188.477	0.832	1968	24603
Vavrinite	Ni_2SbTe_2	P63/MMC	10	1.522	15.219	0.458	2007	158485
Veatchite (Ca-rich)	$Sr(Ca_{0.8}Sr_{0.2})(B_5O_8(OH))_2(B(OH)_3)(H_2O)$	P121	84	5.392	452.955	0.844	1993	39682
Veatchite 1M	$Sr_2(B_5O_8(OH))_2(B(OH)_3)(H_2O)$	A1A1	70	5.129	359.050	0.837	1971	2942
Vergasovaite	$Cu_3O(((Mo_{0.74}S_{0.26})O_4)(SO_4))$	PNMA	56	3.522	197.212	0.606	1999	410232
Vermiculite	$(Mg_{2.46}Al_{0.3}Fe_{0.22}Ti_{0.021})_2(Mg_{0.38}Ca_{0.03}Na_{0.02})_2((Si_{2.83}Al_{1.17})O_{10})_2(OH)_4(H_2O)_{3.4}$	P1	48	5.585	268.078	1.000	2010	166064
Vermiculite (C6 H14 N O2 loaded)	$((Mg_{2.36}Fe_{0.48}Al_{0.16})((Al_{1.28}Si_{2.72})O_{10})(OH)_2)((NH_2)C_5H_{10}COOH)_{0.64}$	C121	37	4.291	158.750	0.824	1970	42747
Vermiculite (La-exchanged)	$La_{0.65}(Al_{0.251}Fe_{0.077}Mg_{5.565})(Si_{5.735}Al_{2.265})O_{20}(OH)_4(H_2O)_{14}$	C12/M1	29	3.410	98.881	0.702	1998	87449
Vermiculite 2M	$Mg_3(Si_4O_{10})(OH)_2$	C1C1	38	4.248	161.421	0.809	1938	27644
Vermiculite 2M	$Pb(Zn_{0.5}Fe_{0.12}Fe_{0.38})_2(AsO_4)_2((OH)_{0.38}(H_2O)_{0.62})_2$	C12/C1	15	2.707	40.603	0.693	1966	34763
Vernadite (Ni-sorbed)	$H_{0.055}Mn_{0.84}(Mn_{0.07}(H_2O)_{0.21})(Ni_{0.15}(H_2O)_{0.45})(Na_{0.06}(H_2O)_{0.18})O_2$	C12/M1	5	1.522	7.610	0.655	2008	166300
Verplanckite	$(Mn_{4.16}Ti_{1.54}Fe_{0.3})Ba_{12}(Si_{12}O_{36})O_2Cl_{9.2}(OH)_{2.1}(H_2O)_{5.15}$	P6/MMM	88	3.128	275.293	0.484	1973	2627
Versiliaite	$Fe_{10}Sb_{11.8}ZnAs_{1.2}O_{32}S_{1.6}$	PBAM	58	3.341	193.763	0.570	1979	100540
Vertumnite (average structure)	$Ca_4Al_2(Si_{2.89}Al_{2.23}O_{5.676}(OH)_{20.904})(H_2O)_{5.34}$	P63/M	48	2.959	142.039	0.530	1978	100407
Vesignieite	$Cu_3Ba(VO_4)_2(OH)_2$	C12/M1	18	3.059	55.059	0.734	1990	67726

Vesuvianite	$Ca_{19}MgFe_2Al_{10}(Si_{18}O_{70})(OH)_8$	P4/NNCZ	256	4.188	1072.000	0.523	1975	28048
Vesuvianite	$Ca_{19}Al_4(Al_{5.496}Mg_{2.084}Fe_{1.42})(SiO_4)_{10}(Si_2O_7)_4(OH)_{9.43}O_{0.57}$	P4/NZ	254	5.115	1299.126	0.640	1983	31280
Vesuvianite	$Ca_{18}Ca(Fe_{0.84}Al_{0.16})(Al_{7.40}Fe_{0.60})Al_4(SiO_4)_{10}(Si_2O_7)_4(OH)_2((OH)_{6.44}O_{1.56})$	P4NC	256	5.094	1304.000	0.637	1994	86423
Veszelyite	$(Cu_{1.76}Zn_{0.24})Zn(PO_4)(OH)_3(H_2O)_2$	P121/A1	52	3.700	192.423	0.649	1974	6209
Vicanite-(Ce)	$(Ca_{8.01}Ce_{2.33}La_{2.21}Th_{2.45})(Fe_{0.823}Al_{0.177})(SiO_4)_3(Si_3B_3O_{18})(BO_3)(As_{0.77}P_{0.23}O_4)(AsO_3)_{0.417}(NaF_3)_{0.583}F_7(H_2O)_{0.21}$	R3MH	76	4.572	347.480	0.732	2002	95334
Vigezzite	$(Ca_{0.75}Ce_{0.25})(Nb_{0.95}Ta_{0.63}Ti_{0.42})O_6$	PNMA	36	2.503	90.117	0.484	1990	69217
Vihorlatite	$(Bi_{21.94}Te_{6.06})(Se_{15.3}S_{1.7})$	P3-M1	47	4.576	215.066	0.824	2007	156836
Viitaniemiite	$Na(Ca_{0.5}Mn_{0.5})Al(PO_4)F_2(OH)$	P121/M1	22	3.096	68.107	0.694	1984	159348
Vikingite	$(Bi_{1.49}Ag_{.51})_4(Pb_{.22}Bi_{.40}Ag_{.38})_4Pb_{10}Bi_4S_{30}$	C12/M1	28	3.879	108.606	0.807	1992	72805
Villamaninite	CuS_2	PA3-	12	0.918	11.020	0.256	1984	53328
Villamaninite-(Ni.Co)	$(Cu_{0.53}Ni_{0.27}Co_{0.13}Fe_{0.07})S_2$	P1211	12	2.585	31.020	0.721	1996	82755
Villiaumite	NaF	FM3-M	2	1.000	2.000	1.000	1992	44276
Villyaellenite	$(Mn_{0.68}Ca_{0.32})Mn_{1.9}(Ca_{1.7}Mn_{0.3})(H_2O)_4(AsO_3(OH))_{2.2}(AsO_4)_{1.8}$	C12/C1	70	4.158	291.050	0.678	2009	165663
Vimsite	$Ca(B_2O_2(OH)_4)$	B112/B	26	2.777	72.211	0.591	1976	25102
Vinogradovite	$Na_{10.16}(Ti_{7.44}Nb_{0.56})O_8(Si_2O_6)_4(Si_3Al_{0.6}Be_{0.4}O_{10})_2(H_2O)_{5.75}$	C12/C1	46	3.567	164.084	0.646	1992	36571
Violarite	$FeNi_2S_4$	FD3-MZ	14	1.379	19.303	0.362	1985	42590
Virgilite	$Li(AlSi_2O_6)$	P6222	12	1.500	18.000	0.418	1990	69221
Vishnevite	$(Na_{2.1}(Na_{3.2}K_{0.7})(SO_4)_{0.58})((Na_{1.66}Ca_{0.05}Fe_{0.01})(H_2O)_{2.92})(Si_{6.24}Al_{5.76}O_{24})$	P63	54	3.346	180.686	0.581	2007	156728

Vismirnovite	$Zn(Sn(OH)_6)$	PN3-Z	80	1.995	159.637	0.316	1968	27767
Vistepite	$SnMn_4(B_2Si_4O_{16}(OH)_2)$	P-1	31	3.986	123.580	0.805	1997	84256
Vitusite-Ce) (subcell)	$Na_3(Ce_{0.55}La_{0.45})(PO_4)_2$	PC21B	112	4.807	538.424	0.706	1994	75620
Vivianite	$Fe_3(PO_4)_2(H_2O)_8$	I12/M1	37	3.480	128.750	0.668	1989	67139
Vladimirite	$Ca_5(HAsO_4)_2(AsO_4)_2(H_2O)_5$	P-1	32	4.000	128.000	0.800	1981	100850
Vlasovite	$Na_2Zr(Si_4O_{11})$	C12/C1	36	3.392	122.117	0.656	2006	156234
Vlodavetsite	$AlCa_2(SO_4)_2F_2Cl(H_2O)_4$	I4/M	28	2.593	72.606	0.539	1995	80437
Voggite	$Na_2Zr(PO_4)(CO_3)(OH)(H_2O)_2$	I12/M1	30	3.640	109.207	0.742	1990	66310
Volborthite	$Cu_3(OH)_2(V_2O_7)(H_2O)_2$	I1A1	40	4.322	172.877	0.812	2008	162805
Volkovskite	$KCa_4(B_{22}O_{32})(OH)_{10}Cl(H_2O)_4$	P1	92	6.524	600.168	1.000	1992	39637
Voltaite. magnesian	$K_2Mg_5Fe_4(SO_4)_{12}(H_2O)_{18}$	FD3-CZ	452	3.465	1566.017	0.393	1989	56365
Volynskite	$AgBiTe_2$	P3-M1	12	2.752	33.020	0.768	1991	159345
Vonbezingite	$Ca_6Cu_3(SO_4)_3(OH)_{12}(H_2O)_2$	P21/C	304	6.248	1899.370	0.758	1992	67674
Vonsenite	$Fe_3(BO_3)O_2$	PBAM	36	3.281	118.117	0.635	1983	31214
Vorlanite	$(Ca_{1.06}U_{0.94})O_4$	FM3-M	3	0.918	2.755	0.579	2011	180086
Vorobyevite	$Cs_{0.08}Na_{0.42}(H_2O)_{0.18}(Al_2(Be_{2.35}Li_{0.65})Si_6O_{18})$	P6/MCC	86	2.547	219.032	0.396	2009	173861
Vrbaite	$Hg_3Tl_4As_8Sb_2S_{20}$	ABA2	74	4.236	313.500	0.682	1971	15240
Vuagnatite	$CaAl(SiO_4)(OH)$	P212121	36	3.170	114.117	0.613	1976	12127
Vulcanite	CuTe	PMMNZ	4	1.000	4.000	0.500	2001	93966
Vuonnemite	$Na_{11}TiNb_2(Si_2O_7)_2(PO_4)_2O_3(OH)$	P-1	46	4.567	210.084	0.827	1998	87444
Vuorelainenite	$Mn(Ni_{0.5}V_{1.5})O_4$	FD3-MS	14	1.379	19.303	0.362	1969	28989
Vuoriyarvite	$Na_{0.6}K_{1.5}(Nb_{0.6}Ti_{0.4})(Nb_{0.5}Ti_{0.5})(SiO_3)_4O_{1.25}(OH)_{0.75}(H_2O)_{1.6}$	C1M1	50	4.844	242.193	0.858	1994	39843

Vurroite	$Pb_{16}(Pb_{2.8}Bi_{1.2})(Sn_{1.44}Bi_{0.56})(AsBi_{0.6}Pb_{0.4})(Bi_{11.58}As_{8.42})(S_{54}Cl_6)$	C12/C1	208	5.739	1193.691	0.745	2008	160401
Vysotskite	PdS	P42/M	16	1.750	28.000	0.438	1956	648749
Vyuntspakhkite	$(Y_{2.12}Tm_{0.88})_2(Al_2(OH)_3(H_{1.48}Si_{1.88}O_7)(SiO_4)(SiO_3(OH)))_2$	P121/N1	128	5.000	640.000	0.714	2009	420624
Wadalite	$Ca_{12}(Al_{10.6}Si_{3.4}O_{32})Cl_{5.4}$	I4-3D	64	2.374	151.922	0.396	1988	62980
Wadeite	$K_2Zr(Si_3O_9)$	P6-	30	3.039	91.168	0.619	1977	56898
Wadeite	$K_2Zr(Si_3O_9)$	P63/M	30	2.106	63.168	0.429	2000	90684
Wadeite	$K_2Zr(Si_3O_9)$	P3	30	3.639	109.168	0.742	1977	200082
Wadsleyite	$Mg_2(SiO_4)$	IMMA	28	2.807	78.606	0.584	1993	66490
Wadsleyite. hydrous	$Mg_7(Si_4O_{14}(OH)_2)$	PMMB	58	3.755	217.763	0.641	1994	40086
Wagnerite	$Mg_2(PO_4)F$	P21/C	128	5.000	640.000	0.714	1992	56656
Wagnerite-Ma5bc	$Mg_2(PO_4)(F_{0.61}(OH)_{0.39})$	I1A1	160	6.322	1011.508	0.863	2003	97283
Wairakite	$Ca_{0.959}(Al_2Si_4O_{12})(H_2O)_{1.82}$	I12/A1	84	4.392	368.955	0.687	2003	98197
Wairakite	$Ca_{0.928}Na_{0.06}(Al_2Si_4O_{12})(H_2O)_2$	I41/ACDZ	92	2.871	264.168	0.440	2003	98198
Wairauite	CoFe	PM3-M	2	1.000	2.000	1.000	1990	56273
Wakabayashilite	$As_{9.3}Sb_{.7}S_{14}$	PNA21	96	4.585	440.156	0.696	2005	171089
Wakefieldite-(Ce)	$Ce(VO_4)$	I41/AMDZ	12	1.252	15.020	0.349	1990	66033
Walfordite	$(Fe_{0.61}Te_{0.29}Ti_{0.08}Mg_{0.06})Te_3O_8$	IA3-	48	1.730	83.020	0.310	1999	87735
Walkerite	$Ca_{16}Mg(B_{13}O_{17}(OH)_{12})_4Cl_6(H_2O)_{28}$	PBA2	220	5.800	1275.899	0.745	2002	96619
Wallisite	$PbTl(Cu_{0.65}Ag_{0.35})(As_2S_5)$	P-1	20	3.322	66.439	0.769	2003	99788
Walpurgite	$(UO_2)Bi_4O_4(AsO_4)_2(H_2O)_2$	P-1	23	3.567	82.042	0.789	1982	158905
Walstromite	$Ca(SiO_3)$	P-1	30	3.907	117.207	0.796	2003	98727
Wardite	$NaAl_3(OH)_4(PO_4)_2(H_2O)_2$	P41212	80	3.422	273.754	0.541	1970	6300

Warikahnite	$Zn_3(AsO_4)_2(H_2O)_2$	P-1	60	4.907	294.413	0.831	1980	100347
Warwickite	$Mg_{1.58}Ti_{0.42}O(BO_3)$	PNAM	28	2.807	78.606	0.584	1974	8130
Watatsumiite	$(K_{0.95}Ba_{0.05})Na_2Li(V_{1.66}Ti_{0.34})(Mn_{1.57}Mg_{0.43})(Si_8O_{24})$	C1C1	80	5.322	425.754	0.842	2003	55859
Waterhouseite	$Mn_7(PO_4)_2(OH)_8$	P21/C	50	3.684	184.193	0.653	2005	152224
Watkinsonite	$(Cu_{1.68}Ag_{0.32})PbBi_4Se_8$	P121/M1	30	3.907	117.207	0.796	2010	169942
Wattersite	$Hg_5(CrO_6)$	C12/C1	24	2.752	66.039	0.600	1995	81605
Wavellite	$Al_3(OH)_3(PO_4)_2(H_2O)_5$	PCMN	84	3.535	296.955	0.553	1968	26816
Weberite	Na_2MgAlF_7	IMMA	22	2.550	56.107	0.572	1982	33507
Weddellite	$Ca(C_2O_4)(H_2O)_{2.375}$	I4/M	54	3.051	164.764	0.530	1980	30783
Weeksite	$K_{1.24}Ba_{0.25}Ca_{0.12}((UO_2)_2(Si_5O_{13}))(H_2O)_{1.03}$	CMMA	226	5.422	1225.360	0.693	2001	92824
Wegscheiderite	$Na_5(CO_3)(HCO_3)_3$	P-1	48	4.627	222.078	0.828	1990	68711
Weibullite	$Ag_{0.32}Pb_{5.09}Bi_{8.55}Se_{6.03}S_{11.97}$	PNMA	128	5.000	640.000	0.714	1980	60147
Weilite	$Ca(HAsO_4)$	P-1	24	3.585	86.039	0.782	1970	16039
Weinebeneite	$Ca(Be_3P_2O_8)(OH)_2(H_2O)_4$	C1C1	40	4.322	172.877	0.812	1992	67675
Weishanite	$Au_{1.5}Hg_{0.5}$	P63/MMC	2	0.000	0.000	0.000	1967	58473
Weissbergite	$TlSbS_2$	P-1	36	1.224	44.078	0.237	1983	35495
Weissite	$Cu_{1.81}Te$	P3M1	72	4.981	358.647	0.807	1973	42156
Welinite	$Mn_4(SiO_4)O_3$	P63	24	2.396	57.510	0.523	1969	36273
Weloganite	$(Sr_{2.8}Ca_{0.2})ZrNa_2(CO_3)_6(H_2O)_3$	P1	33	5.044	166.465	1.000	1975	4241
Wendwilsonite	$Ca_2(Mg_{0.9}Co_{0.1})(AsO_4)_2(H_2O)_2$	P21/C	38	3.301	125.421	0.629	2006	156675
Wenkite	$(Ba_{3.5}K_{0.5})(Ca_{5.5}Na_{0.5})(Si_{11}Al_9O_{41})(OH)_2(SO_4)_3$	P6-2M	85	3.778	321.171	0.590	1974	2083
Werdingite	$KLiMn_2(Si_4O_{10}(OH)_2)$	P-1	20	2.822	56.439	0.653	1991	69605
Wermlandite	$Mg_7(Al_{1.14}Fe_{0.86})(Ca_{0.6}Mg_{0.4})(OH)_{18}(SO_4)_2(H_2O)_{12}$	P3-C1	184	4.163	766.062	0.553	1984	30887

Wesselsite	$SrCu(Si_4O_{10})$	P4/NCCZ	64	2.375	152.000	0.396	2010	168538
Westerveldite	FeAs	PNMA	8	1.000	8.000	0.333	1986	610474
Wheatleyite	$Na_2Cu(C_2O_4)_2(H_2O)_2$	P-1	21	3.440	72.239	0.783	1980	40090
Wherryite	$Pb_7Cu_2(SO_4)_4(SiO_4)_2(OH)_2$	C12/M1	41	4.089	167.660	0.763	1994	79141
Whewellite	$Ca(C_2O_4)(H_2O)$	P21/C	80	4.322	345.754	0.684	2005	153499
Whitlockite	$Ca_{2.89}Mg_{0.11}(PO_4)_2$	R3CH	92	4.076	375.031	0.625	1977	1490
Whitmoreite	$(Fe_{0.59}Mn_{0.27})Fe_2(PO_4)_2(OH)_2(H_2O)_4$	P21/C	38	3.301	125.421	0.629	1974	6202
Wickenburgite	$Pb_3Al(CaAlSi_{10}O_{27}(H_2O)_3)(H_2O)$	P31C	94	4.341	408.014	0.662	2003	413021
Wickmanite	$Mn(Sn(OH)_6)$	PN3-Z	80	1.995	159.637	0.316	1998	76928
Wicksite	$NaCa_2(Fe_{1.58}Mg_{.42})(Fe_{1.28}Mg_{.54}Al_{.18})(Fe_{1.4}Mn_{.6})(PO_4)_6(H_2O)_2$	PCAB	180	4.514	812.534	0.603	1997	76610
Wightmanite	$Mg_5(O)(OH)_5(BO_3)(H_2O)_{1.4}$	I12/M1	34	4.146	140.974	0.815	1972	34371
Wilhelmkleinite	$ZnFe_2(OH)_2(AsO_4)_2$	P121/N1	34	3.146	106.974	0.618	2000	411044
Wilkinsonite	$Na_2Fe_6Si_6O_{20}$	P-1	68	5.117	347.947	0.841	2007	240870
Wilkmanite	Ni_3Se_4	I12/M1	7	1.950	13.651	0.695	1960	76710
Willemite	$Zn_2(SiO_4)$	R3-H	42	2.807	117.909	0.521	1978	2425
Willhendersonite	$(K_{1.03}Ca_{0.98})(AlSiO_4)_3(H_2O)_{3.82}$	P-1	44	4.505	198.215	0.825	2008	161262
Willhendersonite	$(K_{0.92}Ca_{0.75})(AlSiO_4)_3$	R3-R	40	2.877	115.064	0.541	2008	161263
Wiluite	$(Ca_{18.66}Mg_{0.15}Sr_{0.02}La_{0.05}Ce_{0.04}Nd_{0.0096})(Fe_{0.36}Mg_{0.26}Ti_{0.27}Mn_{0.11})(Al_{3.67}Fe_{0.19}Mg_{0.14})(Al_{3.29}Fe_{1.36}Mg_{3.35})(B_{2.18}Al_{0.02}Be_{0.02}H_{0.47})(B_{0.68}H_{0.32})Si_{18}O_{68}(F_{1.21}O_{6.79}(OH)_{4.04})$	P4/NNCZ	266	4.288	1140.705	0.532	2005	156623
Winchite	$(K_{0.20}Na_{0.28})(Na_{0.84}Ca_{1.12}Mn_{0.04})(Mg_{4.46}Fe_{0.52}Al_{0.02})((Al_{0.04}Si_{7.96})O_{22})((OH)_{1.63}F_{0.37})$	C12/M1	42	3.773	158.477	0.700	2003	98793

Winstanleyite	$Ti(Te_3O_8)$	IA3-	48	1.730	83.020	0.310	2003	98902
Wiserite	$Mn_{14}Mg_{0.5}(B_2O_5)_4(Si_{0.5}O_{2.2})(OH)_{9.8}Cl_{0.8}$	P4/NZ	114	3.973	452.949	0.581	1989	203150
Witherite	$Ba(CO_3)$	PMCN	20	1.922	38.439	0.445	1971	15196
Wittichenite	Cu_3BiS_3	P212121	28	2.807	78.606	0.584	1973	14305
Wodginite	$MnSn_{0.47}Fe_{0.01}Ta_{2.12}Nb_{0.3}O_8$	C1C1	24	3.585	86.039	0.782	1974	6126
Wodginite	$Mn(Sn_{0.57}Ta_{0.25}Mn_{0.12}Ti_{0.063})(Ta_{1.78}Nb_{0.22})O_8$	C12/C1	24	2.752	66.039	0.600	1976	30125
Woehlerite	$Na_2Ca_4ZrNb(Si_2O_7)_2FO_3$	P1211	60	4.907	294.413	0.831	1979	100158
Wolfeite (Mg-rich)	$Fe(Fe_{0.84}Mg_{0.16})(PO_4)(OH)$	P121/A1	144	5.170	744.469	0.721	2003	281348
Wollastonite 1A	$Ca(SiO_3)$	P-1	30	3.907	117.207	0.796	1984	201537
Wollastonite 2M	$Ca(SiO_3)$	P121/A1	60	3.907	234.413	0.661	1984	201538
Wonesite M1	$Na_{.46}K_{.09}Mg_{2.13}Fe_{.42}Al_{0.39}(Al_{0.88}Si_{3.12}O_{10})(OH)_2$	C1-	20	3.422	68.439	0.792	2005	171077
Woodhouseite	$(Ca_{0.58}Sr_{0.42})Al_3(PO_4)(SO_4)_{0.98}(OH)_6$	R3-MH	20	2.333	46.664	0.540	2009	166308
Wooldridgeite	$Na_2CaCu_2(P_2O_7)_2(H_2O)_{10}$	FDD2	66	4.075	268.930	0.674	1999	87753
Wroewolfeite	$Cu_4(OH)_6(SO_4)(H_2O)_2$	P1C1	34	4.087	138.974	0.803	1985	40091
Wuelfingite	$Zn(OH)_2$	P212121	12	1.585	19.020	0.442	1964	25509
Wuestite	$Fe_{.95}O$	FM3-M	2	1.000	2.000	1.000	1990	67197
Wuestite (supercell)	$Fe_{0.856}O$	ABM2	464	7.082	3286.103	0.800	1977	981
Wuestite (supercell)	$Fe_{0.902}O$	PM3-M	199	3.839	763.905	0.503	1982	40089
Wuestite low	$Fe_{0.942}O$	R3-MR	2	1.000	2.000	1.000	1953	24698
Wulfenite	$Pb(MoO_4)$	I41/AZ	12	1.252	15.020	0.349	1965	26784
Wurtzite	$(Zn_{0.71}Mn_{0.29})Se$	P63MC	4	1.000	4.000	0.500	1995	41648
Wurtzite 10H	ZnS	P63MC	20	3.322	66.439	0.769	1959	15477
Wurtzite 15R	ZnS	R3MH	10	3.322	33.219	1.000	1948	76955

Wurtzite 2H	ZnS	P63MC	4	1.000	4.000	0.500	2007	157133
Wurtzite 4H	ZnS	P63MC	8	2.000	16.000	0.667	1998	76896
Wurtzite 6H	ZnS	P63MC	12	2.585	31.020	0.721	1962	43392
Wurtzite 8H	ZnS	P63MC	16	3.000	48.000	0.750	1959	15478
Wyartite (dehydrated)	$Ca(U(UO_2)_2(CO_3)_{0.7}O_4(OH)_{1.6})(H_2O)_{1.63}$	PMCN	84	3.821	320.955	0.598	2006	156235
Wyartite 21 A	$CaU(UO_2)_2(CO_3)O_4(OH)(H_2O)_7$	P212121	96	4.585	440.156	0.696	1999	87691
Wycheproofite	$Na_{0.884}AlZr(PO_4)_2(OH)_2(H_2O)_{0.9}$	P-1	42	4.392	184.477	0.815	2003	55430
Xanthiosite	$Ni_3(AsO_4)_2$	P21/C	52	3.700	192.423	0.649	1991	63709
Xanthoconite	Ag_3AsS_3	C12/C1	28	2.807	78.606	0.584	1993	40127
Xenotime-(Dy)	$Dy(PO_4)$	I41/AMDS	12	1.252	15.020	0.349	1972	26440
Xifengite	Fe_5Si_3	P63/MCM	16	1.561	24.980	0.390	2008	161131
Xifengite	Fe_5Si_3	IA3-D	32	1.561	49.961	0.312	2008	161132
Xilingolite	$Pb_3Bi_2S_6$	C12/M1	22	3.550	78.107	0.796	2001	92981
Ximengite	$Bi(PO_4)$	P121/N1	24	2.585	62.039	0.564	1998	54163
Xingzhongite	$Cu(Ir_2S_4)$	I41/AMDS	14	1.379	19.303	0.362	1994	75532
Xitieshanite	$Fe(SO_4)Cl(H_2O)_6$	P21/C	52	3.700	192.423	0.649	1988	65615
Xonotlite	$Ca_6Si_6O_{17}(OH)_2$	P-1	31	4.051	125.580	0.818	2001	94482
Xonotlite	$Ca_6Si_6O_{17}(OH)_2$	P12/A1	62	4.051	251.160	0.680	2001	94483
Xonotlite	$Ca_6(SiO_3)_6(H_2O)$	C12/C1	62	3.986	247.160	0.670	2004	151959
Yafsoanite	$Ca_3Zn_3(TeO_6)_2$	IA3-D	80	1.595	127.637	0.252	1989	67045
Yafsoanite	$(Zn_{1.5}Ca_{1.5})(TeO_6)$	I4132	80	2.345	187.637	0.371	1984	84225
Yakovenchukite-(Y)	$(Ca_{1.12}K_{2.76})Na(Y_{1.66}Yb_{0.34})(Si_{12}O_{30})(H_2O)_4$	PCCA	212	4.860	1030.319	0.629	2007	157729
Yavapaiite	$KFe(SO_4)_2$	C12/M1	12	2.418	29.020	0.675	1972	26004

Yazganite	$NaFe_2(Mg_{.656}Mn_{.344})(AsO_4)_3(H_2O)$	C12/C1	40	3.522	140.877	0.662	2005	172123
Ye'elimite	$Ca_4Al_6O_{12}(SO_4)$	I4-3M	27	1.995	53.853	0.419	1972	9560
Yeatmanite	$(Mn_5Sb_2)((Mn_4Zn_6(Si_{3.8}Fe_{0.2}))O_{28})$	P-1	49	4.635	227.121	0.826	1986	85018
Yedlinite	$Pb_6(CrO_6)Cl_6(H_2O)_2$	R3-H	21	2.081	43.709	0.474	1974	6075
Yegorovite	$Na_4(Si_4O_8(OH)_4)(H_2O)_7$	P21/C	136	5.087	691.895	0.718	2009	169056
Yftisite-(Y)	$Y_4Ti(SiO_4)_2OF_6$	CMCM	44	3.278	144.215	0.600	1975	20003
Yixunite	Pt_3In	PM3-M	4	0.811	3.245	0.406	1997	56260
Yoderite (ordered)	$Mg_2Al_{5.68}Fe_{0.32}(Si_4O_{18})(OH)_2$	P121/M1	32	3.625	116.000	0.725	1982	17050
Yoshimuraite	$Ba_2Mn_2(Ti_{0.69}Fe_{0.31})O(Si_2O_7)((P_{0.5}S_{0.3}Si_{0.2})O_4)(OH)$	P-1	40	4.372	174.877	0.821	2000	89862
Yoshiokaite	$Ca_{5.5}Al_{11}Si_5O_{32}$	P3-	56	3.449	193.134	0.594	1990	69380
Yttrialite	$Y_2(Si_2O_7)$	P121/M1	22	2.914	64.107	0.653	2006	416573
Yttrofluorite	$(CaF_2)_{0.94}(YF_3)_{0.06}$	FM3-M	11	1.096	12.054	0.317	1971	60560
Yttrotungstite-(Y)	$Y_2(W_4O_{14})(OH)_2(H_2O)_2$	P121/M1	24	2.918	70.039	0.636	1971	24895
Yuanfuliite	$(Mg_{0.395}Fe_{0.514}Cr_{0.005}Ti_{0.077}Al_{0.003})(Mg_{0.574}Fe_{0.151}Al_{0.280})O(BO_3)$	PNMA	28	2.807	78.606	0.584	1999	87856
Yuanjiangite	AuSn	P63/MMC	4	1.000	4.000	0.500	1963	56262
Yugawaralite	$Ca(Al_2Si_6O_{16})(H_2O)_4$	P1C1	58	4.858	281.763	0.829	2002	96711
Yugawaralite	$Ca(Al_2Si_6O_{16})(H_2O)_4$	P1	58	5.858	339.763	1.000	2002	96712
Yuksporite	$(Na_{5.5}K_{3.75}Ba_{0.65})(Ca_{8.5}Sr_{1.4})(Ti_{3.1}Nb_{0.9}Mn_{0.15}Fe_{0.10})(Si_6O_{17})_2(Si_2O_7)_3(O_2(OH)_2)((H_2O)_{2.99}(OH)_{3.75})$	P121/M1	220	5.872	1291.899	0.755	2004	55252
Yvonite	$Cu(AsO_3(OH))(H_2O)_2$	P-1	32	4.000	128.000	0.800	1998	85540
Zabuyelite	$Li_2(CO_3)$	C12/C1	12	1.918	23.020	0.535	1990	69133
Zaccagnaite	$(Zn_{0.667}Al_{0.333})_2(OH)_4(CO_3)_{0.333}(H_2O)$	P63/MMC	14	2.236	31.303	0.587	2001	92692

Zanazziite	$Ca_2(Mg_{0.65}Fe_{0.35})(Mg_{1.90}Fe_{1.25}Al_{0.5}Mn_{0.35})Be_4(PO_4)_6(OH)_4(OH)_2(H_2O)_4$	C12/C1	64	4.125	264.000	0.688	2009	174016
Zangboite	$TiFeSi_2$	PBAM	48	3.085	148.078	0.552	2009	166099
Zavaritskite	BiOF	P4/NMMS	6	1.585	9.510	0.613	1984	201620
Zdenekite	$NaPbCu_5(AsO_4)_4Cl(H_2O)_5$	P121/N1	132	5.044	665.860	0.716	2003	250083
Zektzerite	$NaLiZr(Si_6O_{15})$	CMCA	96	3.835	368.156	0.582	1978	100631
Zemannite	$Na_2(Zn_2(TeO_3)_3)(H_2O)_{2.97}$	P63/M	34	2.218	75.425	0.436	1995	80439
Zenzenite	$Pb_3(Fe_{2.46}Mn_{1.54})Mn_3O_{15}$	P63/MCM	100	3.097	309.739	0.466	1991	63717
Zeophyllite	$Ca_{13}Si_{10}O_{28}F_{10}(H_2O)_6$	R3-H	79	3.992	315.391	0.633	1997	85124
Zeravshanite	$(Cs_{3.80}Na_{0.18}K_{0.02})Na_2(Zr_{2.73}Ti_{0.19}Sn_{0.04}Fe_{0.04})(Si_{18}O_{45})(H_2O)_2$	C12/C1	156	5.337	832.523	0.733	2004	98905
Zeunerite	$Cu((UO_2)(AsO_4))_2(H_2O)_{12}$	P4/NNCZ	106	3.162	335.160	0.470	2003	97285
Zeunerite	$Cu(UO_2AsO_4)_2(H_2O)_{12}$	I4/MMM	31	2.825	87.580	0.570	2003	412820
Zhanghengite	CuZn	PM3-M	2	1.000	2.000	1.000	1976	103152
Ziesite	$Cu_2(V_2O_7)$	C12/C1	22	2.550	56.107	0.572	1989	158375
Ziesite	$Cu_2(V_2O_7)$	P1	22	4.459	98.107	1.000	2009	164189
Zimbabweite	$Na(PbNa_{0.5}K_{0.5})As_4(Ta_3Nb_{0.5}Ti_{0.5})O_{18}$	CCMB	58	3.203	185.763	0.547	1988	202709
Zinc	Zn	P63/MMC	2	0.000	0.000	0.000	1953	64990
Zinc blend	ZnS	F4-3M	2	1.000	2.000	1.000	1981	651455
Zincalstibite	$Zn_2AlSb(OH)_{12}$	P3-	28	2.520	70.567	0.524	2007	156181
Zincgartrellite	$Pb(Zn_{0.9}Cu_{0.5}Fe_{0.6})(AsO_4)_2(H_2O)_2$	P-1	15	3.107	46.603	0.795	2000	56915
Zincite	ZnO	P63MC	4	1.000	4.000	0.500	1969	26170
Zincite	ZnO	FM3-M	2	1.000	2.000	1.000	2010	166357
Zincobotryogen	$Zn_{.64}Mg_{.27}Mn_{.11}Fe_{.98}(SO_4)_2(OH)(H_2O)_7$	P121/N1	140	5.158	722.100	0.723	1988	68246

Zincochromite	$(Zn_{0.982}Cr_{0.018})(Cr_{1.982}Zn_{0.018})O_4$	FD3-MZ	14	1.379	19.303	0.362	1994	75626
Zincohoegbomite-2N2S	$Zn_{3.18}Fe_{2.18}Ti_{1.2}Al_{15.44}O_{30}(OH)_2$	P63MC	54	3.698	199.705	0.643	1998	54165
Zincohoegbomite-2N6S	$Zn_{12.74}(Mg_{0.43}Fe_2Ti_{1.56}Al_{5.29})Al_{24}O_{62}(OH)_2$	P63MC	110	4.744	521.832	0.700	1998	54166
Zincolivenite	$CuZn(AsO_4)(OH)$	PNNM	32	2.750	88.000	0.550	2007	160894
Zincostaurolite	$(Fe_{0.13}Mg_{0.10})(Zn_{2.45}Li_{0.51}Fe_{0.20})(Al_{15.98}Ti_{0.02})(Al_{1.95}Mg_{0.09})(Si_8O_{40})((OH)_{3.67}O_{4.33})$	C12/M1	40	3.672	146.877	0.690	2003	97692
Zincowoodwardite 1T	$(Zn_{0.625}Al_{0.375})(OH)_2(SO_4)_{0.188}$	P3-	5	1.522	7.610	0.655	2000	91860
Zincowoodwardite 3R	$((Zn_{0.625}Al_{0.375})(OH)_2)(SO_4)_{0.188}$	R3-MH	10	2.522	25.219	0.759	2000	91859
Zincroselite	$Ca_2(Zn_{0.86}Mg_{0.14})(AsO_4)_2(H_2O)_2$	P21/C	38	3.301	125.421	0.629	2004	54882
Zinkenite	$Pb_{1.6}Sb_{3.4}S_7$	P63	72	3.585	258.117	0.581	1976	61191
Zinkosite	$Zn(SO_4)$	PNMA	24	2.252	54.039	0.491	1988	71018
Zinnwaldite 1M	$K_{0.9}Li_{0.67}Mg_{0.01}Na_{0.05}Mn_{0.05}Al_{1.01}Fe_{0.93}(Al_{0.898}Si_{3.092}Ti_{0.01}O_{10})F_2$	C121	20	3.522	70.439	0.815	1977	10401
Zinnwaldite 2M1	$K_{0.978}(Fe_{0.59}Li_{0.27})(Al_{0.9}Fe_{0.1})(Li_{0.216}Fe_{0.644})(AlSi_3O_{10})(OH)_{1.09}F_{0.91}$	C1C1	40	4.322	172.877	0.812	1996	82497
Zinnwaldite 3T	$K_{0.974}(Fe_{1.4}Li_{0.75}Al_{0.854})(Al_{0.96}Si_{3.04}O_{10})((OH)_{0.94}F_{1.06})$	P3112	60	3.522	211.316	0.596	1993	66679
Zippeite	$K(UO_2)_2(SO_4)(OH)_3(H_2O)$	C12/C1	64	4.063	260.000	0.677	1995	81585
Zippeite	$K_{2.71}((UO_2)_4(SO_4)_2O_3(OH))(H_2O)_3$	C121	64	5.000	320.000	0.833	2003	97298
Zippeite ((NH4)-exchanged)	$(NH_4)_4((UO_2)_2(SO_4)O_2)_2(H_2O)$	C12/M1	62	4.180	259.160	0.702	2003	97300
Zippeite ((NH4)-exchanged)	$(NH_4)_2((UO_2)_2(SO_4)O_2)$	CMCA	60	3.107	186.413	0.526	2003	97301
Zippeite (Co-exchanged)	$Co((UO_2)_2(SO_4)O_2)(H_2O)_{3.5}$	C12/M1	70	4.444	311.050	0.725	2003	97304
Zippeite (Mg-exchanged)	$Mg((UO_2)_2(SO_4)O_2)(H_2O)_{3.5}$	C12/M1	70	4.444	311.050	0.725	2003	97302

Zippeite (Mg-exchanged)	$Mg_2((UO_2)_2(SO_4)O_2)_2(H_2O)_{11}$	P21/C	156	5.285	824.523	0.725	2003	97305
Zippeite (Na-exchanged)	$Na_5(H_2O)_{12}((UO_2)_8(SO_4)_4O_5(OH)_3)$	P121/N1	276	6.109	1685.953	0.753	2003	97299
Zippeite (Zn-exchanged)	$Zn((UO_2)_2(SO_4)O_2)(H_2O)_{3.5}$	C12/M1	70	4.444	311.050	0.725	2003	97303
Zircon	$ZrSiO_4$	I41/AMDZ	12	1.252	15.020	0.349	1974	9582
Zirconolite 2M	$Ca_{0.71}Ti_{1.16}Yb_{0.66}Zr_{1.46}O_7$	C12/C1	46	3.567	164.084	0.646	1996	402299
Zirconolite 3T (Th-.Al-doped)	$Ca_{0.77}Ti_{1.3}Zr_{1.3}Th_{0.15}Al_{0.48}O_7$	P3121	69	3.654	252.126	0.598	2003	97419
Zircosulfate	$Zr(SO_4)_2(H_2O)_4$	FDDDS	30	2.174	65.207	0.443	1959	26499
Zirkelite	$Ca_{.8402}Na_{.3098}Th_{.2646}Ce_{.5954}Zr_2FeTi_{2.16}Nb_{.5238}Ta_{.3162}O_{14}H_{.53}$	P3121	66	3.641	240.322	0.602	1983	31198
Zirsinalite	$Na_6CaZr(Si_6O_{18})$	R3-CR	66	2.997	197.832	0.496	1980	200800
Zlatogorite	$CuNiSb_2$	P3-M1	4	1.500	6.000	0.750	1994	57210
Zoltaiite	$BaV_{11.748}Fe_{.48}Mg_{.03}Cr_{.336}Al_{.018}Ti_{1.31}Si_2O_{27}$	P3-	44	3.208	141.156	0.588	2005	171177
Zorite	$Na_6(Ti(Ti_{0.9}Nb_{0.1})_4(Si_6O_{17})_2(OH)_5)(H_2O)_{10.5}$	CMMM	45	3.759	169.133	0.684	1979	200920
Zugshunstite-(Ce)	$(Ce_{0.54}Nd_{0.26}La_{0.20})Al(SO_4)_2(C_2O_4)(H_2O)_{12}$	C12/C1	108	4.829	521.528	0.715	2001	96641
Zunyite	$Al_{13}Si_5O_{20}(OH)_{14}F_4Cl$	F4-3M	87	3.338	290.419	0.518	1982	32549
Zussmanite	$KFe_{13}(AlSi_{17}O_{42})(OH)_{14}$	R3-H	88	3.969	349.293	0.614	1969	23570
Zvyagintsevite	$(Pd_{0.96}Pt_{0.04})_3(Pb_{0.89}Bi_{0.11})$	PM3-M	4	0.811	3.245	0.406	1997	76859
Zwieselite (endmember)	$Fe_2(PO_4)F$	I112/A	32	3.000	96.000	0.600	1978	20187