Tables and figures

Table 1 Silicates from groups VIIID13-VIIID16 [91N1].

Silicate	Composition	Group
Jimthompsonite	$(Mg,Fe)_5Si_6O_{16}(OH)_2$	VIIID12
Clinojimthompsonite	$(Mg,Fe)_5Si_6O_{16}(OH)_2$	VIIID12
Chesterite	$(Mg,Fe)_{17}Si_{20}O_{54}(OH)_6$	VIIID12
Babingtonite	$Ca_2(Fe,Mn)FeSi_5O_{14}(OH)$	VIIID13
Manganbabingtonite	$Ca_2(Mn,Fe)FeSi_5O_{14}(OH)$	VIIID13
Santaclaraite	$CaMn_4Si_5O_{14}(OH)_2{\cdot}H_2O$	VIIID13
Bostwickite	$CaMn_6Si_3O_{16}{\cdot}7H_2O$	VIIID13
Inesite	$Ca_2Mn_7Si_{10}O_{28}(OH)_2{\cdot}5H_2O$	VIIID13
Marsturite	$NaCaMn_3Si_5O_{14}(OH)$	VIIID13
Lithiomarsturite	$LiMn_2Ca_2HSi_5O_{15}$	VIIID13
Nambulite	$(Li,Na)Mn_4Si_5O_{14}(OH)$	VIIID13
Natronambulite	$(Na,Li)(Mn,Ca)_4Si_5O_{14}(OH)$	
Pyroxmangite	$(Na,Li)Mn_4Si_5O_{14}(OH)$ (see Chap. 8.1.4.1)	VIIID13
Pyroxferroite	$MnSiO_3$ (see Chap. 8.1.4.1)	VIIID13
Rhodonite	$(Fe,Mn,Ca)SiO_3$ (see Chap. 8.1.4.1)	VIIID13
Zektzerite	$NaLiZrSi_6O_{15}$	VIIID14
Emeleusite	$Na_2LiFeSi_6O_{15}$	VIIID14
Tuhualite	$(Na,K)Fe_2Si_6O_{15}$	VIIID14
Batisite	$(Na,K)_2BaTi_2(Si_2O_7)_2$	VIIID15
Shcherbakovite	$NaK(Ba,K)Ti_2(Si_2O_7)_2$	VIIID15
Krauskopfite	$BaSi_2O_5{\cdot}3H_2O$	VIIID15
Stokesite	$CaSnSi_3O_9{\cdot}2H_2O$	VIIID16

Table 2. Atomic sites and thermal parameters.

a) Jimthompsonite[1)], having orthorhombic structure, space group Pbca [78V2].

Atom	*x*	*y*	*z*	B_{eq} [Å^2]	Fe/(Fe+Mg)
M1	0.12565(11)	0.27883(6)	0.89663(35)	0.43(4)	0.060(6)
M2	0.12535(10)	0.33533(6)	0.39566(32)	0.58(4)	0.156(6)
M3	0.12506(12)	0.39257(6)	0.89577(36)	0.42(4)	0.078(6)
M4	0.12485(12)	0.45165(7)	0.39642(37)	0.35(4)	0.011(6)
M5	0.12369(6)	0.50690(4)	0.89507(19)	0.55(2)	0.803(7)
Si1A	0.27111(9)	0.27787(7)	0.55967(27)	0.30(3)	
Si2A	0.26964(10)	0.39005(6)	0.56980(30)	0.40(3)	
Si3A	0.27242(9)	0.44700(6)	0.06669(29)	0.42(3)	
Si1B	0.48205(9)	0.27769(7)	0.26700(28)	0.33(3)	
Si2B	0.48078(10)	0.38929(6)	0.27278(30)	0.43(3)	
Si3B	0.47579(10)	0.44553(7)	0.77466(30)	0.47(3)	

Table 2a (cont.)

Atom	*x*	*y*	*z*	B_{eq} [$Å^2$]	Fe/(Fe+Mg)
OHA	0.18329(22)	0.33519(16)	0.06241(69)	0.49(6)	
OHB	0.56861(22)	0.33513(17)	0.76931(69)	0.50(6)	
O1A	0.30061(23)	0.24981(15)	0.31159(73)	0.65(7)	
O2A	0.18399(22)	0.27777(16)	0.56140(69)	0.40(6)	
O3A	0.29949(22)	0.33407(17)	0.55638(70)	0.68(6)	
O4A	0.18325(23)	0.39170(15)	0.56291(74)	0.50(7)	
O5A	0.29980(23)	0.41491(16)	0.82585(78)	0.73(7)	
O6A	0.30187(23)	0.42028(16)	0.33148(77)	0.69(7)	
O7A	0.18560(22)	0.44852(16)	0.06801(74)	0.55(6)	
O8A	0.31330(22)	0.49841(15)	0.08080(77)	0.61(7)	
O1B	0.45141(24)	0.24443(15)	0.03443(70)	0.54(6)	
O2B	0.56718(22)	0.27792(16)	0.26828(69)	0.41(6)	
O3B	0.45168(22)	0.33338(17)	0.23045(70)	0.65(6)	
O4B	0.56725(24)	0.39207(16)	0.27127(75)	0.60(7)	
O5B	0.44881(23)	0.42441(15)	0.05168(74)	0.59(6)	
O6B	0.45138(23)	0.40886(16)	0.54386(77)	0.76(7)	
O7B	0.56296(23)	0.44849(16)	0.77718(74)	0.63(7)	
O8B	0.43394(23)	0.49561(16)	0.71391(75)	0.62(7)	

b) Babingtonite[5)], having triclinic structure, space group $P\bar{1}$ [72A1].

Atom	*x*	*y*	*z*	B_{eq} [$Å^2$]	Occupancy
Ca1	0.78195(11)	0.94185(7)	0.14246(12)	0.8282(140)	
Ca2	0.23789(10)	0.52034(7)	0.30414(12)	0.6958(136)	
Fe^{2+}(1)	0.59363(8)	0.64411(5)	0.06137(9)	0.4954(165)	0.8561(58)
Fe^{3+}(2)	0.04655(7)	0.23532(5)	0.18443(8)	0.5599(116)	
Si1	0.28767(14)	0.05351(9)	0.34126(15)	0.5788(166)	
Si2	0.46011(14)	0.31355(9)	0.42474(15)	0.5224(162)	
Si3	0.80613(14)	0.44506(9)	0.20977(15)	0.4960(161)	
Si4	0.98773(14)	0.71336(9)	0.30999(15)	0.5226(163)	
Si5	0.32721(14)	0.83592(9)	0.10650(16)	0.5822(165)	
O1	0.19767(39)	0.98774(26)	0.53409(44)	1.0594(437)	
O2	0.13003(36)	0.08047(24)	0.18484(41)	0.7000(390)	
O3	0.43302(38)	0.17111(25)	0.43607(42)	0.8866(414)	
O4	0.31691(36)	0.33841(24)	0.24601(41)	0.7178(394)	
O5	0.55045(37)	0.62029(24)	0.36622(41)	0.7403(394)	
O6	0.67737(36)	0.37087(24)	0.37284(41)	0.7535(398)	
O7	0.96850(37)	0.38455(24)	0.15858(41)	0.7506(399)	
O8	0.67837(36)	0.47453(24)	0.02701(41)	0.6870(391)	
O9	0.92555(35)	0.56897(23)	0.33717(40)	0.6869(389)	
O10	0.87215(37)	0.75533(24)	0.12528(41)	0.7549(399)	
O11	0.02110(38)	0.22100(25)	0.47837(42)	0.8925(414)	

Table 2b (cont.)

Atom	x	y	z	B_{eq} [Å^2]	Occupancy
O12	0.20394(37)	0.73700(24)	0.24969(41)	0.7727(401)	
O13	0.50958(38)	0.79949(25)	0.05626(43)	0.8886(415)	
O14	0.80576(37)	0.14201(24)	0.08167(42)	0.8142(405)	
O15	0.39447(38)	0.96755(25)	0.22562(43)	0.9076(416)	

c) Zektzerite[15)], having orthorhombic-type lattice, space group Cmca [78G1].

Atom	x	y	z	B_{eq} [Å^2]
Na	0.25000	0.21648(8)	0.25000	2.10(3)
Li	0.24712(44)	0.00000	0.00000	1.12(8)
Zr	0.25000	–0.08805(1)	0.25000	0.38(1)
Si1	0.39091(4)	0.12869(3)	0.01792(5)	0.51(1)
Si2	0.38965(4)	0.07306(3)	0.31148(5)	0.51(1)
Si3	0.39072(4)	0.19281(3)	0.54143(5)	0.53(1)
O1	0.37070(12)	0.21970(8)	–0.00542(16)	1.21(2)
O2	0.32801(10)	0.07851(8)	–0.07887(14)	0.73(2)
O3	0.36177(11)	0.11174(9)	0.17054(15)	1.02(2)
O4	0.32978(7)	–0.00240(8)	0.34095(14)	0.79(2)
O5	0.36064(11)	0.14017(8)	0.41591(15)	0.93(2)
O6	0.32984(11)	0.17405(8)	0.66829(4)	0.87(2)
O7	0.50000	0.11001(15)	–0.00132(24)	1.33(4)
O8	0.50000	0.05683(13)	0.31751(24)	1.15(3)
O9	0.50000	0.18146(14)	0.57081(25)	1.34(4)

d) Batisite[21)], having orthorhombic-type lattice, space group Imam [87S1].

Atom	Site	x	y	z	Occupancy
Cat1	4e	0.25000	0.24510(5)	0.0000	Ba^{2+}–0.63; K^+–0.37
Cat2	4e	0.25000	0.6837(2)	0.5000	K^+–0.70; Na^+ –0.30
Na	4c	0.00000	0.0000	0.0000	
Oct	8h	0.25000	0.47100(6)	0.2384(1)	Ti^{4+}–0.72; Nb^{3+}–0.06; Fe^{2+}–0.16; Zr^{4+}–0.06
Si	16j	0.52520(9)	0.35528(7)	0.1966(1)	
O1	16j	0.6172(2)	0.0670(2)	0.2214(3)	
O2	16j	0.3794(2)	0.1356(2)	0.2459(4)	
O3	8f	0.5802(4)	0.2500	0.2500	
O4	8i	0.5326(6)	0.3569(6)	0.0000	
O5	4e	0.7500	0.9580(4)	0.0000	
O6	4e	0.7500	0.9718(5)	0.5000	

Table 3. Crystal structures and lattice parameters at RT.

Silicate	Space group	Lattice parameters				Refs.
		a [Å]	b [Å]	c [Å]	α, β, γ	
Jimthompsonite[1)]	Pbca	18.6263(3)	27.2303(6)	5.2970(3)		78V1
Clinojimthompsonite[2)]	C2/c	9.874(4)	27.24(3)	5.316(3)	β = 109.47(3)°	78V1
Chesterite[3)]	A2$_1$ma	18.6140(3)	45.306(1)	5.2966(3)		78V1
Babingtonite[4)]		7.49(1)	11.83(1)	6.72(1)	α = 95.3(1)° β = 92.3(1)° γ = 103.1(1)°	81G1
Babingtonite[5)]	$P\bar{1}$	7.509(19)	11.697(28)	6.719(17)	α = 91.433(41)° β = 93.866(30)° γ =104.255(29)°	72A1
Babingtonite $Fe^{3+}Fe^{2+}Ca_2Si_5O_{14}(OH)$[a)]	P1	12.18(1)	6.68(1)	7.50(1)	α = 93°59(5)' β = 112°19(5)' γ = 86°3(5)'	76K1
Manganbabingtonite[6)]	triclinic	6.88	11.80	6.77	α = 90°30' β = 93°30' γ = 104°54'	66V1, 67V1
Santaclaraite[7)]	$I\bar{1}$	10.273(4)	11.910(4)	12.001(6)	α = 105.77(3)° β = 110.64(3)° γ = 87.13(3)°	81O1
Santaclaraite[8)]	$B\bar{1}$	15.633(1)	7.603(1)	12.003(1)	α = 109.71(1)° β = 88.61(1)° γ = 99.95(1)°	84E1
Inesite[9)]	$P\bar{1}$	8.928(1)	9.242(3)	11.950(4)	α = 91°53(5)' β = 132°36(2)' γ = 94°15(7)'	68R1
Inesite[10)]	$P\bar{1}$	8.889(2)	9.247(2)	11.975(3)	α = 88.15(2)° β = 132.07(2)° γ = 96.64(2)°	78W1
Marsturite[11)]	P1 or $P\bar{1}$	7.70(1)	12.03(3)	6.78(1)	α = 85.26(35)° β = 94.10(26) γ = 111.04(2)°	78P1
Lithiomarsturite[12)]	$P\bar{1}$	7.652(3)	12.119(3)	6.805(2)	α = 85.41(2)° β = 94°42(3)° γ = 111.51(2)°	90P1
Nambulite[13)]	$P\bar{1}$	7.621(5)	11.761(8)	6.731(5)	α = 92°46(3)' β = 95°05(3)' γ = 106°52(5)'	75N1
Natronambulite[14)]	P1 or $P\bar{1}$	7.620	11.762	6.737	α = 92.81° β = 94.59° γ = 106.87°	85M1, 87H1
Zektzerite[15)]	Cmca or C2ca	14.306(5)	17.330(4)	10.140(3)		77D1
Zektzerite[16)]	Cmca	14.330(2)	17.354(2)	10.164(2)		78G1
Emeleusite[18)]	Acam	10.072(3)	17.337(6)	14.004(3)		78J1
Tuhualite[19)]	Cmca or C2ca	14.31	17.28	10.11		56H1

Table 3 (cont.).

Silicate	Space group	Lattice parameters				Refs.
		a [Å]	*b* [Å]	*c* [Å]	*α, β, γ*	
$Na_2Mg_2Si_6O_{15}$	Cmca	14.165	17.59	10.205		72C1
Batisite[20)]	Orth.	10.41(5)	13.85(5)	8.06(2)		60K1
Batisite[21)]	Imam	10.499(2)	13.913(4)	8.087(2)		87S1
Krauskopfite[22)]	$P2_1/a$	8.460(5)	10.622(66)	7.837(4)	β=94°32(8)'	65A1

1) $(Mg_{7.73}Fe_{2.11}Mn_{0.13}Ca_{0.08}Na_{0.05})(Si_{11.91}Al_{0.37})O_{32}(OH)_4$;
2) $(Mg_{7.59}Fe_{2.07}Mn_{0.13}Ca_{0.11}Al_{0.05}Na_{0.04})(Si_{11.97}Al_{0.03})O_{32}(OH)_4$;
3) $(Mg_{12.43}Fe_{4.07}Mn_{0.29}Ca_{0.16}Na_{0.02})(Si_{19.94}Al_{0.05})O_{54}(OH)_6$;
4) $Na_{0.04}Ca_{2.00}Fe^{2+}{}_{0.76}Mn_{0.15}Mg_{0.12}Fe^{3+}{}_{0.99}Al_{0.04}Si_{4.96}O_{14}(OH)_{0.98}$;
5) $(Ca_{3.85}Mn_{0.11}Na_{0.03}K_{0.03})(Fe_{1.26}Mn_{0.49}Mg_{0.26})(Fe^{3+}{}_{1.97}Al_{0.01})(Si_{9.83}Al_{0.17})O_{27.73}(OH)_{2.27}$;
6) Composition [%]: SiO_2 – 51.85; TiO_2 – 0.15; Al_2O_3 – 0.56; Fe_2O_3 – 12.26; FeO – 4.52; MgO – 0.60; MnO – 7.91; CaO – 19.00; Na_2O – 0.25; K_2O – 0.09; H_2O^+ – 1.95;H_2O^- – 0.26; F – 0.1, Cl – 0.06; CO_2 – 0.13;
7) $(Ca_{0.90}Mn_{4.04}Mg_{0.05}Fe^{2+}{}_{0.01})[Si_5O_{14}(OH)](OH) \cdot H_2O$;
8) $(Ca_{0.87}Na_{0.03})(Mn^{2+}{}_{3.94}Mg_{0.05}Fe^{2+}{}_{0.01}Ni_{0.01}Co_{0.01})(Si_{5.04}Al_{0.02})O_{14.03}(OH)_{0.97}](OH)\cdot H_2O$;
9) $(Mn_{6.16}Fe_{0.56}Mg_{0.08}Na_{0.12}Ca_{0.08})(Ca_{1.97}K_{0.06})(OH)_2(H_2O)_{5.36}(Si_{9.96}Al_{0.06})O_{27.95}$;
10) $Ca_2Mn_7Si_{10}O_{28}(OH)_2{\cdot}5H_2O$;
11) $Ca_{2.70}Mn_{5.86}Na_{1.60}Fe_{0.04}Mg_{0.04}Si_{9.91}H_2O_{30}$;
12) $Ca_{1.98}Li_{1.01}Mn_{1.35}Fe_{0.56}Mg_{0.10}H_{1.00}Si_{5.00}O_{15}$;
13) $(Li_{0.54}Na_{0.43}K_{0.01})(Mn_{3.60}Mg_{0.20}Ca_{0.09}Al_{0.05}Fe^{3+}{}_{0.03})Si_{4.98}O_{13.90}(OH)_{1.10}$;
14) $(Li_{0.17}Na_{0.69})(Mn_{3.32}Ca_{0.39}Mg_{0.19}Fe_{0.03})Si_{5.07}O_{14.02}(OH)_{0.98}$;
15) $Li_{1.00}Na_{1.02}(Zr_{0.94}Ti_{0.05}Hf_{0.01})Si_{6.06}O_{15.15}$;
16) $LiNaZrSi_6O_{15}$;
17) Footnote was deleted.
18) $Na_2LiFe^{3+}Si_6O_{15}$;
19) Composition [wt%]: SiO_2 – 62.93; Al_2O_3 – 0.63; Fe_2O_3 – 14.09; FeO – 9.58; MgO – 0.42; MnO – 0.81; Na_2O – 7.11; K_2O – 1.74; H_2O^- 0.38; H_2O^+ - 1.61; TiO_2 – 0.42;
20) $Na_2BaTi_2(Si_2O_7)_2$;
21) $(Ba_{0.6}K_{0.4})(K_{0.7}Na_{0.3})Na(Ti_{0.72}Fe_{0.16}Nb_{0.06}Zr_{0.06})Si_4O_{14}$;
22) $(Ba_{1.03}K_{0.01}Ca_{0.01})Si_{1.95}O_{4.95}{\cdot}3.08H_2O$;
23) $(Ca_{0.76}Mn_{0.19})(Mn^{3+}{}_{5.97}Fe^{3+}{}_{0.05})(Si_{2.80}Al_{0.16}As^{5+}{}_{0.07})O_{16} \cdot 7.01H_2O$;
24) $(Na_{0.84}K_{1.16})(Ba_{0.55}K_{0.20}Ca_{0.18})(Ti_{1.55}Fe_{0.18}Zr_{0.04}Al_{0.01}Si_{0.21})Si_{4.0}(O_{13.39}OH_{0.61})$;
25) Natural sample;
a) With traces of Mg, Mn, Al in the octahedral sites and Al in the tetrahedral one.

Table 4. Magnetic properties of babingtonite [91B1].

MnO [wt %]	0.82[5)]	0.72[6)]	3.83[7)]	5.89[8)]	4.12[9)]
T_m [K]	18.9	18.5	16.5	14.9	14.5

5)-9) Compositions according to Table 5.

Table 5. Data obtained by the ^{57}Fe NGR method.

Silicate	T [K]	T_m [1)] [K]	Sites	δ [2)] [mm/s]	ΔQ [mm/s]	DH [mm/s]	B_{hf} [T]	A [%]	Refs.
Babingtonite[3)]	30		Fe^{2+}	1.32(1)	2.89(1)	0.26(1)		44.3(2.0)	80A1
			Fe^{3+}	0.51(1)	0.86(1)	0.29(1)		55.7(2.0)	
	80		Fe^{2+}	1.31(1)	2.91(1)	0.26(1)		44.1(2.0)	
			Fe^{3+}	0.51(1)	0.86(1)	0.29(1)		55.8(2.0)	
	295		Fe^{2+}	1.18(1)	2.42(1)	0.29(1)		44.3(2.0)	
			Fe^{3+}	0.38(1)	0.88(1)	0.28(1)		55.7(2.0)	
	575		Fe^{2+}	0.96(1)	1.65(1)	0.29(1)		42.9(2.0)	
			Fe^{3+}	0.18(1)	0.84(1)	0.28(1)		57.1(2.0)	
Babingtonite[4)]	295		Fe^{2+}	1.19(1)	2.43(1)	0.28(1)		40.4(2.0)	80A1
			Fe^{3+}	0.40(1)	0.87(1)	0.29(1)		59.6(2.0)	
Babingtonite[5)]	4.2	18.9	Fe^{3+}	0.52	0.38		54.78	55.7	91B1
			Fe^{2+}	1.31	0.42		23.27	44.3	
	295		Fe^{3+}	0.40	0.84	0.31		53	
			Fe^{2+}	1.20	2.44	0.34		48	
Babingtonite[6)]	4.2	18.5	Fe^{3+}	0.53	0.41		54.91	55.9	91B1
			Fe^{2+}	1.31	0.38		23.35	44.1	
	20		Fe^{3+}	0.52	0.87			55.5	
			Fe^{2+}	1.32	2.91			44.5	
	295		Fe^{3+}	0.40	0.84	0.30		57	
			Fe^{2+}	1.20	2.44	0.32		43	
Babingtonite[7)]	4.2	16.5	Fe^{3+}	0.53	0.43		54.15	61.6	91B1
			Fe^{2+}	1.30	0.44		23.07	38.4	
	295		Fe^{3+}	0.41	0.86	0.30		60	
			Fe^{2+}	1.20	2.44	0.29		40	
Babingtonite[8)]	4.2	14.9	Fe^{3+}	0.52	0.53		53.72	66.2	91B1
			Fe^{2+}	1.30	0.43		23.01	33.8	
	295		Fe^{3+}	0.40	0.82	0.38		66	
			Fe^{2+}	1.20	2.43	0.29		34	
Babingtonite[9)]	4.2	14.5	Fe^{3+}	0.52	0.43		54.03	68	91B1
			Fe^{2+}	1.31	0.44		23.20	32	
	20		Fe^{3+}	0.52	0.88			62.1	
			Fe^{2+}	1.33	2.91			37.9	
	295		Fe^{3+}	0.40	0.85	0.33		62	
			Fe^{2+}	1.18	2.41	0.31		38	

1) The ordering temperature;
2) Isomer shift, relative to α-Fe;
3) $Ca_{1.99}(Fe^{2+}_{0.65}Mg_{0.11}Mn^{2+}_{0.22})(Fe^{3+}_{0.95}Al_{0.07})Si_{5.01}O_{14}OH$;
4) $Ca_{2.01}(Fe^{2+}_{0.74}Mg_{0.13}Mn^{2+}_{0.10})(Fe^{3+}_{0.93}Al_{0.06})Si_{5.02}O_{14}OH$;
5) $Ca_{2.02}(Mg_{0.29}Mn_{0.07}Fe^{2+}_{0.83})(Fe^{3+}_{0.98}Al_{0.06})Si_{5.00}O_{14}OH$;
6) $Ca_{2.00}(Mg_{0.19}Mn_{0.06}Fe^{2+}_{0.78})(Fe^{3+}_{0.92}Al_{0.05})Si_{5.00}O_{14}OH$;
7) $Ca_{1.99}(Na_{0.01}Mg_{0.06}Mn_{0.31}Fe^{2+}_{0.67})(Fe^{3+}_{1.00}Al_{0.02})Si_{5.00}O_{14}OH$;
8) $Ca_{1.99}(Mg_{0.20}Mn_{0.44}Fe^{2+}_{0.48})(Fe^{3+}_{0.94}Al_{0.03})Si_{5.00}O_{14}OH$;
9) $Ca_{1.99}(Mg_{0.21}Mn_{0.33}Fe^{2+}_{0.54})(Fe^{3+}_{0.97}Al_{0.02})Si_{5.00}O_{14}OH$.

Table 6. ^{7}Li and ^{23}Na quadrupole coupling constants, asymmetry parameters and coordination polyhedra in zektzerite.

Silicate	Nucleus	e^2qQ/h [MHz]	η	Coordination	Refs.
Zektzerite,	^{7}Li	0.119(5)	0.05(1)	Tetr.	89G1
$NaLiZrSi_6O_{15}$	^{23}Na	2.42	0.86	10-coord. irregular	
Krauskopfite,	^{29}Si	–80.3			00O1
$BaSi_2O_5 \cdot 3H_2O$		–84.1			

Table 7. Refractive indices.

Silicate[a)]	n_α	n_β	n_γ	$2V^o$		Refs.
Jimthompsonite[1)]	1.6050(5)	1.6260(5)	1.6330(5)	62(2)°	biaxial, negative	78V1
Chesterite[3)]	1.6170(5)	1.6320(5)	1.6400(5)	71(2)°	biaxial, negative	78V1
Babingtonite[4)]	1.716(2)	1.731(2)	1.750(2)	69(3)°		81G1
Mangan-babingtonite[6)]	1.716	1.730	1.746	78°…82°		66V1, 67V1
Santaclaraite[8)]	1.681(2)	1.696(2)	1.708(2)	83(1)°	biaxial, negative	84E1
Inesite[9)]	1.6180(3)	1.6387(3)	1.6522(3)	74°54’…76°54’	biaxial, negative	68R1
Marsturite[11)]	1.686(2)	1.691(1)	1.780(1)	60°	biaxial, positive	78P1
Lithiomarsturite[12)]	1.645(1)	1.660(1)	1.666(1)	59.9(8)°	biaxial, negative	90P1
Natronambulite[14)]	1.706(2)	1.710(2)	1.730(5)	≅ 45°	biaxial, positive	85M1
Bostwickite[23)]	1.775(5)	1.798(3)	1.800(3)	25°	biaxial, negative	83D1
Zektzerite[15)]	1.582(3)	1.584(3)	1.584(3)	≅ 0°	biaxial, negative	77D1
Tuhualite[19)]	1.680(3)	1.612(3)	1.621(3)	variable (61°…70°)	biaxial, positive	56H1
Batisite[20)]	1.730(1)	1.735(1)	1.791(1)	7°	biaxial, positive	60K1
Potassic batisite[24)]	1.714		1.769	64°	biaxial, positive	65P1
Krauskopfite[22)]	1.574(2)	1.587(2)	1.599(2)	88(5)°	biaxial, negative	65A1, 65A2
Shcherbakovite[25)]	1.776	1.745	1.707	82°	biaxial, negative	54E1

a) Compositions are given in Table 3;
b) Natural sample.