

Database S1.2

Known non-perovskites

Compound	Structure	Source (ICSD ID or Reference)	A		B		B'		X	
			Ion	Oxidation state	Ion	Oxidation state	Ion	Oxidation state	Ion	Oxidation state
Ag ₂ VAsO ₆	A ₂ BB'X ₆ – other	425757	Ag	1	V	5	As	5	O	-2
Ho ₂ Be ₂ SiO ₇	A ₂ B ₂ B'X ₇	73521	Ho	3	Be	2	Si	4	O	-2
Ag ₂ VPO ₆	A ₂ BB'X ₆ – other	730580	Ag	1	V	5	P	5	O	-2
AgBiO ₃	Ilmenite	89432	Ag	1	Bi	5	Bi	5	O	-2
AgCaCl ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Ag	1	Ca	2	Ca	2	Cl	-1
AgCdBr ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Ag	1	Cd	2	Cd	2	Br	-1
AgFeP ₂ O ₇	ABB'2X ₇	421413	Fe	3	Ag	1	P	5	O	-2
AgFeV ₂ O ₇	ABB'2X ₇	166891	Fe	3	Ag	1	V	5	O	-2
AgI ₃ O ₈	AB ₃ X ₈	194399	Ag	1	I	5	I	5	O	-2
AgInP ₂ O ₇	ABB'2X ₇	261150	In	3	Ag	1	P	5	O	-2
AgLaNb ₂ O ₇	ABB'2X ₇	73983	La	3	Ag	1	Nb	5	O	-2
AgMgCl ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Ag	1	Mg	2	Mg	2	Cl	-1
AgPbBr ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Ag	1	Pb	2	Pb	2	Br	-1
AgPbF ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Ag	1	Pb	2	Pb	2	F	-1
AgTa ₃	Pyroxene	74442	Ag	1	Ta	5	Ta	5	S	-2
AgVP ₂ O ₇	ABB'2X ₇	427970	V	3	Ag	1	P	5	O	-2
AlBO ₃	Calcite	30538	Al	3	B	3	B	3	O	-2
AsBO ₃	ABX ₃ – other	J Alloy and Compounds, 372, 40-48 (2008)	As	3	B	3	B	3	O	-2
B ₂ BaTiO ₆	A ₂ BB'X ₆ – other	97972	B	3	Ba	2	Ti	4	O	-2
B ₂ BaZrO ₆	A ₂ BB'X ₆ – other	95527	B	3	Ba	2	Zr	4	O	-2
B ₂ CaSnO ₆	A ₂ BB'X ₆ – other	30998	B	3	Ca	2	Sn	4	O	-2
B ₂ CsNbO ₆	A ₂ BB'X ₆ – other	80422	B	3	Cs	1	Nb	5	O	-2
B ₂ CsTaO ₆	A ₂ BB'X ₆ – other	80423	B	3	Cs	1	Ta	5	O	-2
B ₂ KNbO ₆	A ₂ BB'X ₆ – other	170807	B	3	K	1	Nb	5	O	-2
B ₂ KSbO ₆	A ₂ BB'X ₆ – other	238073	B	3	K	1	Sb	5	O	-2
B ₂ KTaO ₆	A ₂ BB'X ₆ – other	162214	B	3	K	1	Ta	5	O	-2
B ₂ MgSnO ₆	A ₂ BB'X ₆ – other	28266	B	3	Mg	2	Sn	4	O	-2
B ₂ MnSnO ₆	A ₂ BB'X ₆ – other	79165	B	3	Mn	2	Sn	4	O	-2
B ₂ NaNbO ₆	A ₂ BB'X ₆ – other	79703	B	3	Na	1	Nb	5	O	-2
B ₂ RbNbO ₆	A ₂ BB'X ₆ – other	395	B	3	Rb	1	Nb	5	O	-2

B2SrSnO6	A2BB'X6 – other	28267	B	3	Sr	2	Sn	4	O	-2
B2TiNbO6	A2BB'X6 – other	2082	B	3	Ti	1	Nb	5	O	-2
B2YCrO6	A2BB'X6 – other	189501	B	3	Y	3	Cr	3	O	-2
Ba2BiRuO6	A2BB'X6 – other	72450	Ba	2	Bi	3	Ru	5	O	-2
Ba2CoIrO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Co	3	Ir	5	O	-2
Ba2CoOsO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Co	2	Os	6	O	-2
Ba2CoSbO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Co	3	Sb	5	O	-2
Ba2CrOsO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Cr	3	Os	5	O	-2
Ba2CrReO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Cr	3	Re	5	O	-2
Ba2CrTaO6	A2BB'X6 – other	74410	Ba	2	Cr	3	Ta	5	O	-2
Ba2CrWO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Cr	3	W	5	O	-2
Ba2CuTeO6	A2BB'X6 – other	6240	Ba	2	Cu	2	Te	6	O	-2
Ba2FeOsO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Fe	3	Os	5	O	-2
Ba2InIrO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	In	3	Ir	5	O	-2
Ba2InRuO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	In	3	Ru	5	O	-2
Ba2MnIrO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Mn	3	Ir	5	O	-2
Ba2MnOsO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Mn	2	Os	6	O	-2
Ba2MnRuO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Mn	3	Ru	5	O	-2
Ba2NiOSO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Ni	2	Os	6	O	-2
Ba2NiTeO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Ni	2	Te	6	O	-2
Ba2RhRuO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Rh	3	Ru	5	O	-2
Ba2RhSbO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Rh	3	Sb	5	O	-2
Ba2RhUO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Rh	3	U	5	O	-2
Ba2ScMoO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Sc	3	Mo	5	O	-2
Ba2ZnTeO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ba	2	Zn	2	Te	6	O	-2
BaBaAsO5	ABB'X5	404439	Ba	2	B	3	As	5	O	-2
BaBPO5	ABB'X5	50875	Ba	2	B	3	P	5	O	-2
BaCO3	Aragonite	15196	Ba	2	C	4	C	4	O	-2
BaCoO3	BaNiO3 – type	922	Ba	2	Co	4	Co	4	O	-2
BaCrO3	BaMnO3 – type	35029	Ba	2	Cr	4	Cr	4	O	-2
BaGeO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Ba	2	Ge	4	Ge	4	O	-2
BaMnO3	BaNiO3 – type	10331	Ba	2	Mn	4	Mn	4	O	-2
BaNbS3	BaNiO3 – type	659538	Ba	2	Nb	4	Nb	4	S	-2
BaNiO3	BaNiO3 – type	175	Ba	2	Ni	4	Ni	4	O	-2

BaRhO3	BaMnO3 – type	15520	Ba	2	Rh	4	Rh	4	O	-2
BaRuO3	BaRuO3 – type	10253	Ba	2	Ru	4	Ru	4	O	-2
BaRuO3	BaMnO3 – type	84652	Ba	2	Ru	4	Ru	4	O	-2
BaSe2O5	AB2X5	54157	Ba	2	Se	4	Se	4	O	-2
BaSiO3	BaRuO3 – type	156705	Ba	2	Si	4	Si	4	O	-2
BaSn2S5	AB2X5	424620	Ba	2	Sn	4	Sn	4	S	-2
BaTaS3	BaNiO3 – type	16083	Ba	2	Ta	4	Ta	4	S	-2
BaTaSe3	BaNiO3 – type	616129	Ba	2	Ta	4	Ta	4	Se	-2
BaTe3O7	AB3X7	431435	Ba	2	Te	4	Te	4	O	-2
BaTh2S5	AB2X5	251556	Ba	2	Th	4	Th	4	S	-2
BaTiS3	BaNiO3 – type	14175	Ba	2	Ti	4	Ti	4	S	-2
BaTiSe3	BaNiO3 – type	616131	Ba	2	Ti	4	Ti	4	Se	-2
BaU2S5	AB2X5	425332	Ba	2	U	4	U	4	S	-2
BaU2Se5	AB2X5	616132	Ba	2	U	4	U	4	Se	-2
BaU2Te5	AB2X5	251557	Ba	2	U	4	U	4	Te	-2
BaV4O9	AB3X9	172998	Ba	2	V	4	V	4	O	-2
BaVS3	BaNiO3 – type	8193	Ba	2	V	4	V	4	S	-2
BaVSe3	BaNiO3 – type	10486	Ba	2	V	4	V	4	Se	-2
BaVSi2O7	ABB'2X7	78029	Ba	2	V	4	Si	4	O	-2
BaZrSe3	BaNiO3 – type	616136	Ba	2	Zr	4	Zr	4	Se	-2
Be2SiO4	A2BX4 – other	64942	Be	2	Si	4	Si	4	O	-2
Bi2CdGeO6	A2BB'X6 – other	82158	Bi	3	Cd	2	Ge	4	O	-2
Bi2FeTiO6	A2BB'X6 – other	162263	Bi	3	Fe	2	Ti	4	O	-2
Bi2NiMnO6	A2BB'X6 – other	152487	Bi	3	Ni	2	Mn	4	O	-2
BiCdVO5	ABB'X5	91474	Cd	2	Bi	3	V	5	O	-2
BiCoPO5	ABB'X5	88825	Co	2	Bi	3	P	5	O	-2
BiMgVO5	ABB'X5	150399	Mg	2	Bi	3	V	5	O	-2
BiMnAsO5	ABB'X5	59721	Mn	2	Bi	3	As	5	O	-2
BiMnPO5	ABB'X5	95086	Mn	2	Bi	3	P	5	O	-2
BiMnVO5	ABB'X5	59720	Mn	2	Bi	3	V	5	O	-2
BiNiPO5	ABB'X5	79857	Ni	2	Bi	3	P	5	O	-2
BiPVO5	ABB'X5	60577	Pb	2	Bi	3	V	5	O	-2
BiSmO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Bi	3	Sm	3	Sm	3	O	-2
BPCo3O7	ABB'X3X7	51317	Co	2	P	5	B	3	O	-2

BPZn3O7	ABB'X3X7	406386	Zn	2	P	5	B	3	O	-2
Ca2Al2SiO7	A2B2B'X7	24588	Al	3	Ca	2	Si	4	Si	-2
Ca2B2SiO7	A2B2B'X7	5244	B	3	Ca	2	Si	4	Si	-2
Ca2BiAsO6	A2BB'X6 – other	91475	Ca	2	Bi	3	As	5	O	-2
Ca2GeS4	Olivine	23416	Ca	2	Ge	4	Ge	4	S	-2
Ca2SiS4	Olivine	619542	Ca	2	Si	4	Si	4	S	-2
Ca2SiSe4	Olivine	619574	Ca	2	Si	4	Si	4	Se	-2
Ca2SnS4	Olivine	619548	Ca	2	Sn	4	Sn	4	S	-2
CaBiVO5	ABB'X5	73814	Ca	2	Bi	3	V	5	O	-2
CaBPO5	ABB'X5	87893	Ca	2	B	3	P	5	O	-2
CaCO3	Aragonite	15194	Ca	2	C	4	C	4	O	-2
CaPtO3	Pyroxene	173278	Ca	2	Pt	4	Pt	4	O	-2
CaSe2O5	AB2X5	27209	Ca	2	Se	4	Se	4	O	-2
CaSnSiO5	ABB'X5	1042	Ca	2	Sn	4	Si	4	O	-2
CaTe2O5	AB2X5	419646	Ca	2	Te	4	Te	4	O	-2
CaTeCO5	ABB'X5	4319	Ca	2	Te	4	C	4	O	-2
CaTiGeO5	ABB'X5	171795	Ca	2	Ti	4	Ge	4	O	-2
CaTiSiO5	ABB'X5	9837	Ca	2	Ti	4	Si	4	O	-2
CaU2Se5	AB2X5	619577	Ca	2	U	4	U	4	Se	-2
CaZrGeO5	ABB'X5	154327	Ca	2	Zr	4	Ge	4	O	-2
CaZrSi2O7	ABB'2X7	203131	Ca	2	Zr	4	Si	4	O	-2
Cd2BiAsO6	A2BB'X6 – other	154151	Cd	2	Bi	3	As	5	O	-2
Cd2Mn3O8	A2B3X8	16957	Cd	2	Mn	4	Mn	4	O	-2
Cd2SiO4	A2BX4 – other	50527	Cd	2	Si	4	Si	4	O	-2
CdCO3	Calcite	33662	Cd	2	C	4	C	4	O	-2
CdSe2O5	AB2X5	75230	Cd	2	Se	4	Se	4	O	-2
CeBO3	Aragonite	99689	Ce	3	B	3	B	3	O	-2
Co2GeO4	Spinel	21115	Co	2	Ge	4	Ge	4	O	-2
Co2Mo3O8	A2B3X8	10143	Co	2	Mo	4	Mo	4	O	-2
Co2SiO4	Olivine	6248	Co	2	Si	4	Si	4	O	-2
Co2Te3O8	A2B3X8	50702	Co	2	Te	4	Te	4	O	-2
CoBiAsO5	ABB'X5	428633	Co	2	Bi	3	As	5	O	-2
CoCO3	Calcite	5208	Co	2	C	4	C	4	O	-2
CoFePO5	ABB'X5	93580	Co	2	Fe	3	P	5	O	-2

CoMnO3	Ilmenite	31854	Co	2	Mn	4	Mn	4	O	-2
CoSe2O5	AB2X5	49916	Co	2	Se	4	Se	4	O	-2
CoTiO3	Ilmenite	16548	Co	2	Ti	4	Ti	4	O	-2
CoU2S5	AB2X5	624883	Co	2	U	4	U	4	S	-2
Cr2SiO4	A2BX4 – other	75639	Cr	2	Si	4	Si	4	O	-2
CrBO3	Calcite	43311	Cr	3	B	3	B	3	O	-2
Cs2Hg3I8	A2B3X8	4074	Cs	1	Hg	2	Hg	2	I	-1
Cs2LiHoI6	A2BB'X6 – other	Prog. Solid State Chem. 14, 141-219 (1982)	Cs	1	Li	1	Ho	3	I	-1
Cs2LiInCl6	A2BB'X6 – other	65735	Cs	1	Li	1	In	3	Cl	-1
Cs2LiLuI6	A2BB'X6 – other	Prog. Solid State Chem. 14, 141-219 (1982)	Cs	1	Li	1	Lu	3	I	-1
Cs2LiScCl6	A2BB'X6 – other	Prog. Solid State Chem. 14, 141-219 (1982)	Cs	1	Li	1	Sc	3	Cl	-1
Cs2LiScI6	A2BB'X6 – other	Prog. Solid State Chem. 14, 141-219 (1982)	Cs	1	Li	1	Sc	3	I	-1
Cs2LiTmI6	A2BB'X6 – other	Prog. Solid State Chem. 14, 141-219 (1982)	Cs	1	Li	1	Tm	3	I	-1
Cs2NaCoF6	A2BB'X6 – other	42157	Cs	1	Na	1	Co	3	F	-1
Cs2NaNiF6	A2BB'X6 – other	42152	Cs	1	Na	1	Ni	3	F	-1
Cs2NaTiF6	A2BB'X6 – other	67160	Cs	1	Na	1	Ti	3	F	-1
Cs3CoBr5	A3BX5	201135	Cs	1	Co	2	Co	2	Br	-1
Cs3ZnBr5	A3BX5	180053	Cs	1	Zn	2	Zn	2	Br	-1
Cs3ZnCl5	A3BX5	240876	Cs	1	Zn	2	Zn	2	Cl	-1
CsAs3O8	AB3X8	172984	Cs	1	As	5	As	5	O	-2
CsBaBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Cs	1	Ba	2	Ba	2	Br	-1
CsBaCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Cs	1	Ba	2	Ba	2	Cl	-1
CsBaF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Cs	1	Ba	2	Ba	2	F	-1
CsBiNb2O7	ABB'2X7	96510	Bi	3	Cs	1	Nb	5	O	-2
CsCoCl3	BaNiO3 – type	27511	Cs	1	Co	2	Co	2	Cl	-1
CsCoF3	BaRuO3 – type	15091	Cs	1	Co	2	Co	2	F	-1
CsCr3O8	AB3X8	28410	Cs	1	Cr	5	Cr	5	O	-2
CsCrAs2O7	ABB'2X7	195521	Cr	3	Cs	1	As	5	O	-2
CsCrCl3	BaNiO3 – type	36132	Cs	1	Cr	2	Cr	2	Cl	-1
CsCrP2O7	ABB'2X7	54093	Cr	3	Cs	1	P	5	O	-2
CsCrP2S7	ABB'2X7	260893	Cr	3	Cs	1	P	5	S	-2
CsCrV2O7	ABB'2X7	262978	Cr	3	Cs	1	V	5	O	-2
CsCu2F5	AB2X5	33867	Cs	1	Cu	2	Cu	2	F	-1
CsErP2O7	ABB'2X7	421378	Er	3	Cs	1	P	5	O	-2

CsEu2I5	AB2X5	41099	Cs	1	Eu	2	Eu	2	I	-1
CsFeBr3	BaNiO3 – type	174041	Cs	1	Fe	2	Fe	2	Br	-1
CsFeCl3	BaNiO3 – type	300249	Cs	1	Fe	2	Fe	2	Cl	-1
CsFeP2O7	ABB'2X7	72723	Fe	3	Cs	1	P	5	O	-2
CsInP2O7	ABB'2X7	240262	In	3	Cs	1	P	5	O	-2
CsLaNb2O7	ABB'2X7	82378	La	3	Cs	1	Nb	5	O	-2
CsLuP2O7	ABB'2X7	160193	Lu	3	Cs	1	P	5	O	-2
CsMgBr3	BaNiO3 – type	87260	Cs	1	Mg	2	Mg	2	Br	-1
CsMgCl3	BaNiO3 – type	22086	Cs	1	Mg	2	Mg	2	Cl	-1
CsMgI3	BaNiO3 – type	87262	Cs	1	Mg	2	Mg	2	I	-1
CsMnBr3	BaNiO3 – type	2782	Cs	1	Mn	2	Mn	2	Br	-1
CsMnF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Cs	1	Mn	2	Mn	2	F	-1
CsMnI3	BaNiO3 – type	10042	Cs	1	Mn	2	Mn	2	I	-1
CsMoP2O7	ABB'2X7	49919	Mo	3	Cs	1	P	5	O	-2
CsNbNb2O7	ABB'2X7	96511	Nb	3	Cs	1	Nb	5	O	-2
CsNbO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Cs	1	Nb	5	Nb	5	O	-2
CsNiBr3	BaNiO3 – type	423829	Cs	1	Ni	2	Ni	2	Br	-1
CsNiCl3	BaNiO3 – type	60262	Cs	1	Ni	2	Ni	2	Cl	-1
CsNiF3	BaNiO3 – type	15092	Cs	1	Ni	2	Ni	2	F	-1
CsNiI3	BaNiO3 – type	423830	Cs	1	Ni	2	Ni	2	I	-1
CsPd2Cl5	AB2X5	411722	Cs	1	Pd	2	Pd	2	Cl	-1
CsPd2F5	AB2X5	35284	Cs	1	Pd	2	Pd	2	F	-1
CsPdNiF5	ABB'X5	74288	Cs	1	Pd	2	Ni	2	F	-1
CsPuP2S7	ABB'2X7	94910	Pu	3	Cs	1	P	5	S	-2
CsTiBr3	BaNiO3 – type	41320	Cs	1	Ti	2	Ti	2	Br	-1
CsTiCl3	BaNiO3 – type	49748	Cs	1	Ti	2	Ti	2	Cl	-1
CsTiI3	BaNiO3 – type	154258	Cs	1	Ti	2	Ti	2	I	-1
CsTiP2O7	ABB'2X7	280202	Ti	3	Cs	1	P	5	O	-2
CsVBr3	BaNiO3 – type	201829	Cs	1	V	2	V	2	Br	-1
CsVCl3	BaNiO3 – type	15932	Cs	1	V	2	V	2	Cl	-1
CsVI3	BaNiO3 – type	26453	Cs	1	V	2	V	2	I	-1
CsVO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Cs	1	V	5	V	5	O	-2
CsVP2O7	ABB'2X7	65678	V	3	Cs	1	P	5	O	-2
CsYbP2O7	ABB'2X7	300200	Yb	3	Cs	1	P	5	O	-2

CsYP2O7	ABB'2X7	74599	Y	3	Cs	1	P	5	O	-2
Cu2BiAsO6	A2BB'X6 – other	88111	Cu	2	Bi	3	As	5	O	-2
Cu2BiPO6	A2BB'X6 – other	75387	Cu	2	Bi	3	P	5	O	-2
Cu2BiVO6	A2BB'X6 – other	51091	Cu	2	Bi	3	V	5	O	-2
Cu2Mn3O8	A2B3X8	971	Cu	2	Mn	4	Mn	4	O	-2
CuAlAsO5	ABB'X5	91551	Cu	2	Al	3	As	5	O	-2
CuCaCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Cu	1	Ca	2	Ca	2	Cl	-1
CuCdCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Cu	1	Cd	2	Cd	2	Cl	-1
CuCdI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Cu	1	Cd	2	Cd	2	I	-1
CuFePO5	ABB'X5	93582	Cu	2	Fe	3	P	5	O	-2
CuInPO5	ABB'X5	89606	Cu	2	In	3	P	5	O	-2
CuInVO5	ABB'X5	151080	Cu	2	In	3	V	5	O	-2
CuNb3O8	AB3X8	14099	Cu	1	Nb	5	Nb	5	O	-2
CuPb3Br7	AB3X7	414107	Cu	1	Pb	2	Pb	2	Br	-1
CuPO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Cu	1	P	5	P	5	O	-2
CuSe2O5	AB2X5	603	Cu	2	Se	4	Se	4	O	-2
CuTe2O5	AB2X5	2542	Cu	2	Te	4	Te	4	O	-2
CuVSe2O7	ABB'2X7	88704	Cu	2	V	4	Se	4	O	-2
CuZnCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Cu	1	Zn	2	Zn	2	Cl	-1
CuZrTiO5	ABB'X5	174286	Cu	2	Zr	4	Ti	4	O	-2
Dy2Be2GeO7	A2B2B'X7	39121	Dy	3	Be	2	Ge	4	Ge	-2
Dy2CuTiO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Dy	3	Cu	2	Ti	4	O	-2
DyBO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Dy	3	B	3	B	3	O	-2
Er2Be2GeO7	A2B2B'X7	39123	Er	3	Be	2	Ge	4	Ge	-2
Er2CuTiO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Er	3	Cu	2	Ti	4	O	-2
ErBO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Er	3	B	3	B	3	O	-2
Eu2Ga2GeS7	A2B2B'X7	262242	Ga	3	Eu	2	Ge	4	Ge	-2
Eu2SiO4	A2BX4 – other	1510	Eu	2	Si	4	Si	4	O	-2
EuBO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Eu	3	B	3	B	3	O	-2
EuCO3	Aragonite	109074	Eu	2	C	4	C	4	O	-2
Fe2GeO4	Spinel	93973	Fe	2	Ge	4	Ge	4	O	-2
Fe2GeS4	Olivine	333	Fe	2	Ge	4	Ge	4	S	-2
Fe2Mo3O8	A2B3X8	4182	Fe	2	Mo	4	Mo	4	O	-2
Fe2O3	Pyroxene	189439	Fe	3	Fe	3	Fe	3	O	-2

Fe ₂ SiO ₄	Spinel	100552	Fe	2	Si	4	Si	4	O	-2
Fe ₂ SiS ₄	Olivine	332	Fe	2	Si	4	Si	4	S	-2
FeAlPO ₅	ABB'X ₅	74760	Fe	2	Al	3	P	5	O	-2
FeBO ₃	Calcite	34474	Fe	3	B	3	B	3	O	-2
FeCO ₃	Calcite	100678	Fe	2	C	4	C	4	O	-2
FeTh ₂ S ₅	AB ₂ X ₅	633325	Fe	2	Th	4	Th	4	S	-2
FeTh ₂ Se ₅	AB ₂ X ₅	633494	Fe	2	Th	4	Th	4	Se	-2
FeTiO ₃	Ilmenite	9805	Fe	2	Ti	4	Ti	4	O	-2
FeU ₂ S ₅	AB ₂ X ₅	41899	Fe	2	U	4	U	4	Se	-2
GaAlO ₃	ABX ₃ – other	J Alloy and Compounds, 372, 40-48 (2008)	Ga	3	Al	3	Al	3	O	-2
GaBO ₃	Calcite	429062	Ga	3	B	3	B	3	O	-2
Gd ₂ Be ₂ GeO ₇	A ₂ B ₂ B'X ₇	39120	Gd	3	Be	2	Ge	4	Ge	-2
GdBO ₃	ABX ₃ – other	J Alloy and Compounds, 372, 40-48 (2008)	Gd	3	B	3	B	3	O	-2
GdYO ₃	ABX ₃ – other	J Alloy and Compounds, 372, 40-48 (2008)	Gd	3	Y	3	Y	3	O	-2
Hg ₂ CdSeO ₆	A ₂ B ₂ B'X ₆ – other	413288	Hg	2	Cd	2	Se	6	O	-2
Ho ₂ CuTiO ₆	A ₂ B ₂ B'X ₆ – other	Prog. In Solid State Chem. 43 1-36 (2015)	Ho	3	Cu	2	Ti	4	O	-2
HoBO ₃	ABX ₃ – other	J Alloy and Compounds, 372, 40-48 (2008)	Ho	3	B	3	B	3	O	-2
In ₂ BiGaS ₆	A ₂ B ₂ B'X ₆ – other	410032	In	3	Bi	3	Ga	3	O	-2
InBO ₃	Calcite	75254	In	3	B	3	B	3	O	-2
InFeO ₃	ABX ₃ – other	J Alloy and Compounds, 372, 40-48 (2008)	In	3	Fe	3	Fe	3	O	-2
K ₂ CsBiCl ₆	A ₂ B ₂ B'X ₆ – other	201983	K	1	Cs	1	Bi	3	Cl	-1
K ₂ P ₂ ScSe ₆	A ₂ B ₂ B'X ₇	239570	Sc	3	P	5	K	1	K	-2
K ₂ SbPO ₆	A ₂ B ₂ B'X ₆ – other	201788	K	1	Sb	5	P	5	O	-2
K ₂ SeMoO ₆	A ₂ B ₂ B'X ₆ – other	412999	K	1	Se	4	Mo	6	O	-2
K ₂ VPO ₆	A ₂ B ₂ B'X ₆ – other	72977	K	1	V	5	P	5	O	-2
K ₃ BeF ₅	A ₃ BX ₅	14114	K	1	Be	2	Be	2	F	-1
KAlAs ₂ O ₇	ABB'2X ₇	79711	Al	3	K	1	As	5	O	-2
KAlP ₂ O ₇	ABB'2X ₇	2888	Al	3	K	1	P	5	O	-2
KAsO ₃	ABX ₃ – other	J Alloy and Compounds, 372, 40-48 (2008)	K	1	As	5	As	5	O	-2
KAuP ₂ O ₇	ABB'2X ₇	165325	Au	3	K	1	P	5	O	-2
KBaBr ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	K	1	Ba	2	Ba	2	Br	-1
KBaCl ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	K	1	Ba	2	Ba	2	Cl	-1
KBaF ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	K	1	Ba	2	Ba	2	F	-1
KBeCl ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	K	1	Be	2	Be	2	Cl	-1

KBiP2S7	ABB'2X7	74019	Bi	3	K	1	P	5	S	-2
KCdI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	K	1	Cd	2	Cd	2	I	-1
KCoBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	K	1	Co	2	Co	2	Br	-1
KCoI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	K	1	Co	2	Co	2	I	-1
KCr3O8	AB3X8	15921	K	1	Cr	5	Cr	5	O	-2
KCrP2O7	ABB'2X7	84318	Cr	3	K	1	P	5	O	-2
KCrV2O7	ABB'2X7	245133	Cr	3	K	1	V	5	O	-2
KErP2S7	ABB'2X7	415671	Er	3	K	1	P	5	S	-2
KEu2I5	AB2X5	41100	K	1	Eu	2	Eu	2	I	-1
KFeAs2O7	ABB'2X7	160288	Fe	3	K	1	As	5	O	-2
KFeP2O7	ABB'2X7	86309	Fe	3	K	1	P	5	O	-2
KGaAs2O7	ABB'2X7	82391	Ga	3	K	1	As	5	O	-2
KGaP2O7	ABB'2X7	86310	Ga	3	K	1	P	5	O	-2
KHgI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	K	1	Hg	2	Hg	2	I	-1
KInP2O7	ABB'2X7	240260	In	3	K	1	P	5	O	-2
KInP2S7	ABB'2X7	91755	In	3	K	1	P	5	S	-2
KLuP2O7	ABB'2X7	160191	Lu	3	K	1	P	5	O	-2
KMgI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	K	1	Mg	2	Mg	2	I	-1
KMnI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	K	1	Mn	2	Mn	2	I	-1
KMoP2O7	ABB'2X7	65656	Mo	3	K	1	P	5	O	-2
KNiCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	K	1	Ni	2	Ni	2	Cl	-1
KNO3	Aragonite	10289	K	1	N	5	N	5	O	-2
KPb2Cl5	AB2X5	416431	K	1	Pb	2	Pb	2	Cl	-1
KPO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	K	1	P	5	P	5	O	-2
KPuP2S7	ABB'2X7	94908	Pu	3	K	1	P	5	S	-2
KSbO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	K	1	Sb	5	Sb	5	O	-2
KSmP2S7	ABB'2X7	93760	Sm	3	K	1	P	5	S	-2
KSrCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	K	1	Sr	2	Sr	2	Cl	-1
KTiP2O7	ABB'2X7	90013	Ti	3	K	1	P	5	O	-2
KVO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	K	1	V	5	V	5	O	-2
KVP2O7	ABB'2X7	68625	V	3	K	1	P	5	O	-2
KVP2S7	ABB'2X7	91756	V	3	K	1	P	5	S	-2
KYbP2O7	ABB'2X7	240717	Yb	3	K	1	P	5	O	-2
KYP2O7	ABB'2X7	75171	Y	3	K	1	P	5	O	-2

La2Be2GeO7	A2B2B'X7	39117	La	3	Be	2	Ge	4	Ge	-2
La2Ca2MnO7	A2B2B'X7	97454	La	3	Ca	2	Mn	4	Mn	-2
La2KNbO6	A2BB'X6 – other	160450	La	3	K	1	Nb	5	O	-2
LaBO3	Aragonite	35535	La	3	B	3	B	3	O	-2
Li2BeF4	A2BX4 – other	14360	Li	1	Be	2	Be	2	F	-1
Li2MoTeO6	A2BB'X6 – other	250677	Li	1	Te	4	Mo	6	O	-2
Li2SnTeO6	A2BB'X6 – other	40256	Li	1	Sn	4	Te	6	O	-2
Li2WTeO6	A2BB'X6 – other	250678	Li	1	Te	4	W	6	O	-2
Li2ZnBr4	Olivine	73223	Li	1	Zn	2	Zn	2	Br	-1
Li2ZnCl4	Spinel	202743	Li	1	Zn	2	Zn	2	Cl	-1
Li2ZnI4	Olivine	69032	Li	1	Zn	2	Zn	2	I	-1
Li2ZrTeO6	A2BB'X6 – other	71488	Li	1	Zr	4	Te	6	O	-2
LiAlAs2O7	ABB'2X7	161498	Al	3	Li	1	As	5	O	-2
LiAsO3	Ilmenite	202862	Li	1	As	5	As	5	O	-2
LiBaBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Ba	2	Ba	2	Br	-1
LiBaCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Ba	2	Ba	2	Cl	-1
LiBeCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Be	2	Be	2	Cl	-1
LiBiO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Li	1	Bi	5	Bi	5	O	-2
LiCaBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Ca	2	Ca	2	Br	-1
LiCaCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Ca	2	Ca	2	Cl	-1
LiCaF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Ca	2	Ca	2	F	-1
LiCoBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Co	2	Co	2	Br	-1
LiCrCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Cr	2	Cr	2	Cl	-1
LiCrP2O7	ABB'2X7	240965	Cr	3	Li	1	P	5	O	-2
LiDy2Br5	AB2X5	402192	Li	1	Dy	2	Dy	2	Br	-1
LiDy2Cl5	AB2X5	35763	Li	1	Dy	2	Dy	2	Cl	-1
LiFeAs2O7	ABB'2X7	75180	Fe	3	Li	1	As	5	O	-2
LiFeP2O7	ABB'2X7	69197	Fe	3	Li	1	P	5	O	-2
LiGaAs2O7	ABB'2X7	161500	Ga	3	Li	1	As	5	O	-2
LiInP2O7	ABB'2X7	60935	In	3	Li	1	P	5	O	-2
LiKTmF5	ABB'X5	428536	Li	1	K	1	Tm	3	F	-1
LiKYF5	ABB'X5	39668	Li	1	K	1	Y	3	F	-1
LiMgBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Mg	2	Mg	2	Br	-1
LiMgCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Mg	2	Mg	2	Cl	-1

LiMgF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Mg	2	Mg	2	F	-1
LiMgI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Mg	2	Mg	2	I	-1
LiMnF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Mn	2	Mn	2	F	-1
LiMnI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Mn	2	Mn	2	I	-1
LiMnP2O7	ABB'2X7	415153	Mn	3	Li	1	P	5	O	-2
LiMoP2O7	ABB'2X7	68522	Mo	3	Li	1	P	5	O	-2
LiNiCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Ni	2	Ni	2	Cl	-1
LiNO3	Calcite	33661	Li	1	N	5	N	5	O	-2
LiPbBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Pb	2	Pb	2	Br	-1
LiPbCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Pb	2	Pb	2	Cl	-1
LiPbF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Pb	2	Pb	2	F	-1
LiPO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Li	1	P	5	P	5	O	-2
LiSbO3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Sb	5	Sb	5	O	-2
LiScAs2O7	ABB'2X7	161499	Sc	3	Li	1	As	5	O	-2
LiScP2O7	ABB'2X7	91496	Sc	3	Li	1	P	5	O	-2
LiSrBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Sr	2	Sr	2	Br	-1
LiTiP2O7	ABB'2X7	166164	Ti	3	Li	1	P	5	O	-2
LiTm2Cl5	AB2X5	201996	Li	1	Tm	2	Tm	2	Cl	-1
LiVCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	V	2	V	2	Cl	-1
LiVO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Li	1	V	5	V	5	O	-2
LiVP2O7	ABB'2X7	80551	V	3	Li	1	P	5	O	-2
LiVPO6	A2BB'X6 – other	73868	Li	1	V	5	P	5	O	-2
LiYb2Cl5	AB2X5	87594	Li	1	Yb	2	Yb	2	Cl	-1
LiZnF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Li	1	Zn	2	Zn	2	F	-1
Lu2CuTiO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Lu	3	Cu	2	Ti	4	O	-2
Lu2MnTiO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Lu	3	Mn	2	Ti	4	O	-2
LuBO3	Calcite	16525	Lu	3	B	3	B	3	O	-2
Mg2BiAsO6	A2BB'X6 – other	73895	Mg	2	Bi	3	As	5	O	-2
Mg2BiPO6	A2BB'X6 – other	73894	Mg	2	Bi	3	P	5	O	-2
Mg2GeO4	Spinel	1086	Mg	2	Ge	4	Ge	4	O	-2
Mg2GeS4	Olivine	23525	Mg	2	Ge	4	Ge	4	S	-2
Mg2GeSe4	Olivine	252050	Mg	2	Ge	4	Ge	4	Se	-2
Mg2Mo3O8	A2B3X8	82362	Mg	2	Mo	4	Mo	4	O	-2
Mg2SiS4	Olivine	642791	Mg	2	Si	4	Si	4	S	-2

Mg ₂ SiSe ₄	Olivine	642818	Mg	2	Si	4	Si	4	Se	-2
Mg ₂ SnS ₄	Olivine	642793	Mg	2	Sn	4	Sn	4	S	-2
Mg ₂ SnSe ₄	Olivine	642819	Mg	2	Sn	4	Sn	4	Se	-2
MgAlPO ₅	ABB'X ₅	74773	Mg	2	Al	3	P	5	O	-2
MgCO ₃	Calcite	10264	Mg	2	C	4	C	4	O	-2
MgSe ₂ O ₅	AB ₂ X ₅	402917	Mg	2	Se	4	Se	4	O	-2
MgSiO ₃	ABX ₃ – other	J Alloy and Compounds, 372, 40-48 (2008)	Mg	2	Si	4	Si	4	O	-2
MgSnO ₃	ABX ₃ – other	J Alloy and Compounds, 372, 40-48 (2008)	Mg	2	Sn	4	Sn	4	O	-2
MgTe ₂ O ₅	AB ₂ X ₅	4318	Mg	2	Te	4	Te	4	O	-2
MgTiO ₃	Ilmenite	65794	Mg	2	Ti	4	Ti	4	O	-2
MgV ₂ O ₅	AB ₂ X ₅	86102	Mg	2	V	4	V	4	O	-2
Mn ₂ FeWO ₆	A ₂ BB'X ₆ – other	429619	Mn	2	Fe	2	W	6	O	-2
Mn ₂ GeS ₄	Olivine	23582	Mn	2	Ge	4	Ge	4	S	-2
Mn ₂ Mo ₃ O ₈	A ₂ B ₃ X ₈	10144	Mn	2	Mo	4	Mo	4	O	-2
Mn ₂ SiO ₄	Olivine	26376	Mn	2	Si	4	Si	4	O	-2
Mn ₂ SiS ₄	Olivine	24141	Mn	2	Si	4	Si	4	S	-2
Mn ₂ SiSe ₄	Olivine	80957	Mn	2	Si	4	Si	4	Se	-2
Mn ₂ SnSe ₄	Olivine	643596	Mn	2	Sn	4	Sn	4	Se	-2
Mn ₂ SnTe ₄	Olivine	169812	Mn	2	Sn	4	Sn	4	Te	-2
MnCO ₃	Calcite	80867	Mn	2	C	4	C	4	O	-2
MnGeO ₃	Ilmenite	40333	Mn	2	Ge	4	Ge	4	O	-2
MnSe ₂ O ₅	AB ₂ X ₅	27518	Mn	2	Se	4	Se	4	O	-2
MnSnO ₃	Ilmenite	29203	Mn	2	Sn	4	Sn	4	O	-2
MnTe ₂ O ₅	AB ₂ X ₅	15844	Mn	2	Te	4	Te	4	O	-2
MnTeV ₂ O ₇	ABB'X ₇	59328	Mn	2	Te	4	V	4	O	-2
Na ₂ BeF ₄	Olivine	12101	Na	1	Be	2	Be	2	F	-1
Na ₂ CoCl ₄	Olivine	813	Na	1	Co	2	Co	2	Cl	-1
Na ₂ CrCl ₄	A ₂ BX ₄ – other	66201	Na	1	Cr	2	Cr	2	Cl	-1
Na ₂ GeTeO ₆	A ₂ BB'X ₆ – other	88789	Na	1	Ge	4	Te	6	O	-2
Na ₂ NbAsO ₆	A ₂ BB'X ₆ – other	280157	Na	1	Nb	5	As	5	O	-2
Na ₂ SeMoO ₆	A ₂ BB'X ₆ – other	412998	Na	1	Se	4	Mo	6	O	-2
Na ₂ Ti ₃ Cl ₈	A ₂ B ₃ X ₈	401026	Na	1	Ti	2	Ti	2	Cl	-1
Na ₂ USiO ₆	A ₂ BB'X ₆ – other	24975	Na	1	U	6	Si	4	O	-2
Na ₂ ZnBr ₄	Olivine	73224	Na	1	Zn	2	Zn	2	Br	-1

Na ₂ ZnCl ₄	Olivine	814	Na	1	Zn	2	Zn	2	Cl	-1
NaAlAs ₂ O ₇	ABB'2X7	75142	Al	3	Na	1	As	5	O	-2
NaAlP ₂ O ₇	ABB'2X7	400462	Al	3	Na	1	P	5	O	-2
NaAsO ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	As	5	As	5	O	-2
NaBaBr ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Ba	2	Ba	2	Br	-1
NaBaCl ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Ba	2	Ba	2	Cl	-1
NaBaF ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Ba	2	Ba	2	F	-1
NaBeCl ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Be	2	Be	2	Cl	-1
NaBiO ₃	Ilmenite	27553	Na	1	Bi	5	Bi	5	O	-2
NaCaBr ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Ca	2	Ca	2	Br	-1
NaCaCl ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Ca	2	Ca	2	Cl	-1
NaCaF ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Ca	2	Ca	2	F	-1
NaCaI ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Ca	2	Ca	2	I	-1
NaCdBr ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Cd	2	Cd	2	Br	-1
NaCdCl ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Cd	2	Cd	2	Cl	-1
NaCdF ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Cd	2	Cd	2	F	-1
NaCdI ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Cd	2	Cd	2	I	-1
NaCeP ₂ O ₇	ABB'2X7	154075	Ce	3	Na	1	P	5	O	-2
NaCrP ₂ O ₇	ABB'2X7	31291	Cr	3	Na	1	P	5	O	-2
NaEuP ₂ O ₇	ABB'2X7	151525	Eu	3	Na	1	P	5	O	-2
NaFeK ₃ Cl ₆	ABB'3X ₆	23182	Na	1	Fe	3	K	1	Cl	-1
NaFeP ₂ O ₇	ABB'2X7	38367	Fe	3	Na	1	P	5	O	-2
NaHgI ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Hg	2	Hg	2	I	-1
NaHoP ₂ O ₇	ABB'2X7	419049	Ho	3	Na	1	P	5	O	-2
NaInAs ₂ O ₇	ABB'2X7	59304	In	3	Na	1	As	5	O	-2
NaInP ₂ O ₇	ABB'2X7	240259	In	3	Na	1	P	5	O	-2
NaIrO ₃	Pyroxene	261371	Na	1	Ir	5	Ir	5	O	-2
NaLaP ₂ O ₇	ABB'2X7	151526	La	3	Na	1	P	5	O	-2
NaLuP ₂ O ₇	ABB'2X7	160189	Lu	3	Na	1	P	5	O	-2
NaMgBr ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Mg	2	Mg	2	Br	-1
NaMgI ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Mg	2	Mg	2	I	-1
NaMnCl ₃	Ilmenite	2552	Na	1	Mn	2	Mn	2	Cl	-1
NaMoP ₂ O ₇	ABB'2X7	202644	Mo	3	Na	1	P	5	O	-2
NaNiCl ₃	ABX ₃ – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Ni	2	Ni	2	Cl	-1

NaNO3	Calcite	14185	Na	1	N	5	N	5	O	-2
NaPbCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Pb	2	Pb	2	Cl	-1
NaPbF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Pb	2	Pb	2	F	-1
NaPO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Na	1	P	5	P	5	O	-2
NaScAs2O7	ABB'2X7	161501	Sc	3	Na	1	As	5	O	-2
NaScP2O7	ABB'2X7	260594	Sc	3	Na	1	P	5	O	-2
NaSrBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Sr	2	Sr	2	Br	-1
NaSrCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Na	1	Sr	2	Sr	2	Cl	-1
NaTiP2O7	ABB'2X7	202751	Ti	3	Na	1	P	5	O	-2
NaVP2O7	ABB'2X7	65696	V	3	Na	1	P	5	O	-2
NaYbP2O7	ABB'2X7	409801	Yb	3	Na	1	P	5	O	-2
NaYP2O7	ABB'2X7	83657	Y	3	Na	1	P	5	O	-2
Nd2Be2SiO7	A2B2B'X7	73520	Nd	3	Be	2	Si	4	Si	-2
Nd2KNbO6	A2BB'X6 – other	160451	Nd	3	K	1	Nb	5	O	-2
NdBO3	Aragonite	412407	Nd	3	B	3	B	3	O	-2
Ni2GeO4	Spinel	69508	Ni	2	Ge	4	Ge	4	O	-2
Ni2InSbO6	A2BB'X6 – other	237874	Ni	3	In	3	Sb	3	O	-2
Ni2NbO6	A2BB'X6 – other	32583	Ni	2	Nb	5	B	3	O	-2
Ni2ScSbO6	A2BB'X6 – other	237878	Ni	3	Sc	3	Sb	3	O	-2
Ni2SiO4	Spinel	2136	Ni	2	Si	4	Si	4	O	-2
Ni2Te3O8	A2B3X8	50703	Ni	2	Te	4	Te	4	O	-2
NiBiAsO5	ABB'X5	92916	Ni	2	Bi	3	As	5	O	-2
NiCO3	Calcite	61064	Ni	2	C	4	C	4	O	-2
NiFePO5	ABB'X5	93581	Ni	2	Fe	3	P	5	O	-2
NiMnO3	Ilmenite	31853	Ni	2	Mn	4	Mn	4	O	-2
NiTiO3	Ilmenite	15988	Ni	2	Ti	4	Ti	4	O	-2
Pb2BiVO6	A2BB'X6 – other	151928	Pb	2	Bi	3	V	5	O	-2
Pb2HgCrO6	A2BB'X6 – other	280778	Pb	2	Hg	2	Cr	6	O	-2
Pb2Te3O8	A2B3X8	200372	Pb	2	Te	4	Te	4	O	-2
PbBAsO5	ABB'X5	404327	Pb	2	B	3	As	5	O	-2
PbBiAsO5	ABB'X5	419124	Pb	2	Bi	3	As	5	O	-2
PbBiPO5	ABB'X5	419125	Pb	2	Bi	3	P	5	O	-2
PbBPO5	ABB'X5	93598	Pb	2	B	3	P	5	O	-2
PbCO3	Aragonite	6178	Pb	2	C	4	C	4	O	-2

PbSe2O5	AB2X5	79688	Pb	2	Se	4	Se	4	O	-2
PbSiO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Pb	2	Si	4	Si	4	O	-2
PbTeCu3O7	ABB'X3X7	405329	Pb	2	Te	6	Cu	2	O	-2
PbU2S5	AB2X5	648493	Pb	2	U	4	U	4	S	-2
PbU2Se5	AB2X5	66862	Pb	2	U	4	U	4	Se	-2
PdSe2O5	AB2X5	417900	Pd	2	Se	4	Se	4	O	-2
PrBO3	Aragonite	421745	Pr	3	B	3	B	3	O	-2
RbAlAs2O7	ABB'2X7	72508	Al	3	Rb	1	As	5	O	-2
RbBaBr3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Ba	2	Ba	2	Br	-1
RbBeCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Be	2	Be	2	Cl	-1
RbBeF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Be	2	Be	2	F	-1
RbCoCl3	BaNiO3 – type	24305	Rb	1	Co	2	Co	2	Cl	-1
RbCrP2O7	ABB'2X7	710074	Cr	3	Rb	1	P	5	O	-2
RbCrV2O7	ABB'2X7	245134	Cr	3	Rb	1	V	5	O	-2
RbCuCl3	BaNiO3 – type	84212	Rb	1	Cu	2	Cu	2	Cl	-1
RbCuPdF5	ABB'X5	64662	Rb	1	Cu	2	Pd	2	F	-1
RbErP2O7	ABB'2X7	421379	Er	3	Rb	1	P	5	O	-2
RbEu2I5	AB2X5	41098	Rb	1	Eu	2	Eu	2	I	-1
RbEuCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Eu	2	Eu	2	Cl	-1
RbFeCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Fe	2	Fe	2	Cl	-1
RbFeP2O7	ABB'2X7	72722	Fe	3	Rb	1	P	5	O	-2
RbInAs2O7	ABB'2X7	415930	In	3	Rb	1	As	5	O	-2
RbInP2O7	ABB'2X7	240261	In	3	Rb	1	P	5	O	-2
RbLaNb2O7	ABB'2X7	75456	La	3	Rb	1	Nb	5	O	-2
RbLaTa2O7	ABB'2X7	81870	La	3	Rb	1	Ta	5	O	-2
RbLuP2O7	ABB'2X7	160192	Lu	3	Rb	1	P	5	O	-2
RbMgCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Mg	2	Mg	2	Cl	-1
RbMgI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Mg	2	Mg	2	I	-1
RbMnBr3	BaNiO3 – type	14077	Rb	1	Mn	2	Mn	2	Br	-1
RbMnI3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Mn	2	Mn	2	I	-1
RbMnP2O7	ABB'2X7	247130	Mn	3	Rb	1	P	5	O	-2
RbMoP2O7	ABB'2X7	65673	Mo	3	Rb	1	P	5	O	-2
RbNbO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Rb	1	Nb	5	Nb	5	O	-2
RbNiBr3	BaNiO3 – type	15011	Rb	1	Ni	2	Ni	2	Br	-1

RbNiCl3	BaNiO3 – type	15010	Rb	1	Ni	2	Ni	2	Cl	-1
RbPb2Br5	AB2X5	26663	Rb	1	Pb	2	Pb	2	Br	-1
RbPrNb2O7	ABB'2X7	238794	Pr	3	Rb	1	Nb	5	O	-2
RbPuP2S7	ABB'2X7	94909	Pu	3	Rb	1	P	5	S	-2
RbScAs2O7	ABB'2X7	59821	Sc	3	Rb	1	As	5	O	-2
RbSeMoO6	A2BB'X6 – other	413000	Rb	1	Se	4	Mo	6	O	-2
RbSrCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Sr	2	Sr	2	Cl	-1
RbSrF3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Sr	2	Sr	2	F	-1
RbTaO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Rb	1	TA	5	TA	5	O	-2
RbTiBr3	BaNiO3 – type	154257	Rb	1	Ti	2	Ti	2	Br	-1
RbTiCl3	BaNiO3 – type	49747	Rb	1	Ti	2	Ti	2	Cl	-1
RbTiP2O7	ABB'2X7	69848	Ti	3	Rb	1	P	5	O	-2
RbV3O8	AB3X8	50009	Rb	1	V	5	V	5	O	-2
RbVBr3	BaNiO3 – type	201831	Rb	1	V	2	V	2	Br	-1
RbVCl3	BaNiO3 – type	201828	Rb	1	V	2	V	2	Cl	-1
RbVP2S7	ABB'2X7	73782	V	3	Rb	1	P	5	O	-2
RbYP2O7	ABB'2X7	72468	Y	3	Rb	1	P	5	O	-2
RbZnCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Rb	1	Zn	2	Zn	2	Cl	-1
ScBO3	Calcite	65010	Sc	3	B	3	B	3	O	-2
SiTiSr2O7	ABB'2X7	83362	Sr	2	Si	4	Ti	4	O	-2
Sm2Be2GeO7	A2B2B'X7	39119	Sm	3	Be	2	Ge	4	Ge	-2
Sm2Ca2MnO7	A2B2B'X7	98364	Sm	3	Ca	2	Mn	4	Mn	-2
SmBO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Sm	3	B	3	B	3	O	-2
SmSiO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Sm	2	Si	4	Si	4	O	-2
SmYO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Sm	3	Y	3	Y	3	O	-2
Sr2CeRuO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Sr	2	Ce	3	Ru	5	O	-2
Sr2CrMnO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Sr	2	Cr	4	Mn	4	O	-2
Sr2LaRuO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Sr	2	La	3	Ru	5	O	-2
Sr2LiReSe6	A2BB'X6 – other	246730	Sr	2	Li	1	Re	7	Se	-2
Sr2NdRuO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Sr	2	Nd	3	Ru	5	O	-2
Sr2PrRuO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Sr	2	Pr	3	Ru	5	O	-2
SrBPO5	ABB'X5	87894	Sr	2	B	3	P	5	O	-2
SrCO3	Aragonite	15195	Sr	2	C	4	C	4	O	-2
SrSe2O5	AB2X5	60993	Sr	2	Se	4	Se	4	O	-2

SrTh2Se5	AB2X5	85772	Sr	2	Th	4	Th	4	Se	-2
SrTiGeO5	ABB'X5	158144	Sr	2	Ti	4	Ge	4	O	-2
SrTiS3	BaNiO3 – type	651070	Sr	2	Ti	4	Ti	4	S	-2
SrU2S5	AB2X5	251553	Sr	2	U	4	U	4	S	-2
SrVSi2O7	ABB'2X7	30451	Sr	2	V	4	Si	4	O	-2
SrZrSi2O7	ABB'2X7	75272	Sr	2	Zr	4	Si	4	O	-2
Tb2CuTiO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Tb	3	Cu	2	Ti	4	O	-2
TiBO3	Calcite	402039	Ti	3	B	3	B	3	O	-2
Tl2PNbO6	A2BB'X6 – other	72593	Tl	1	P	5	Nb	5	O	-2
Tl3FeCl5	A3BX5	10138	Tl	1	Fe	2	Fe	2	Cl	-1
TlBe2F5	AB2X5	2763	Tl	1	Be	2	Be	2	F	-1
TlBeCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Tl	1	Be	2	Be	2	Cl	-1
TlBiP2S7	ABB'2X7	249460	Bi	3	Tl	1	P	5	S	-2
TlCeP2S7	ABB'2X7	195309	Ce	3	Tl	1	P	5	S	-2
TlCoCl3	BaNiO3 – type	155189	Tl	1	Co	2	Co	2	Cl	-1
TlCrP2O7	ABB'2X7	401129	Cr	3	Tl	1	P	5	O	-2
TlEuCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Tl	1	Eu	2	Eu	2	Cl	-1
TlInAs2O7	ABB'2X7	415929	In	3	Tl	1	As	5	O	-2
TlMgCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Tl	1	Mg	2	Mg	2	Cl	-1
TlPbCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Tl	1	Pb	2	Pb	2	Cl	-1
TlPrP2S7	ABB'2X7	195311	Pr	3	Tl	1	P	5	S	-2
TlSbO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Tl	1	Sb	5	Sb	5	O	-2
TlScP2S7	ABB'2X7	195312	Sc	3	Tl	1	P	5	S	-2
TlSrCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Tl	1	Sr	2	Sr	2	Cl	-1
TlTiPO5	ABB'X5	67427	Ti	2	Tl	3	P	5	O	-2
TlV3O8	AB3X8	20688	Tl	1	V	5	V	5	O	-2
TlZnCl3	ABX3 – other	Acta Cryst B 64, 702-707 (2008)	Tl	1	Zn	2	Zn	2	Cl	-1
Tm2CuTiO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Tm	3	Cu	2	Ti	4	O	-2
TmBO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Tm	3	B	3	B	3	O	-2
VAlO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	V	3	Al	3	Al	3	O	-2
VBO3	Calcite	45060	V	3	B	3	B	3	O	-2
VCrO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	V	3	Cr	3	Cr	3	O	-2
Y2Be2GeO7	A2B2B'X7	39122	Y	3	Be	2	Ge	4	Ge	-2
Y2CuTiO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Y	3	Cu	2	Ti	4	O	-2

Y2SiBe2O7	A2B2B'X7	23233	Y	3	Si	4	Be	2	Be	-2
Yb2CuTiO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Yb	3	Cu	2	Ti	4	O	-2
Yb2MnTiO6	A2BB'X6 – other	Prog. In Solid State Chem. 43 1-36 (2015)	Yb	3	Mn	2	Ti	4	O	-2
Yb2PrDyS6	A2BB'X6 – other	245723	Yb	3	Pr	3	Dy	3	S	-2
Yb2PrTbS6	A2BB'X6 – other	245722	Yb	3	Pr	3	Tb	3	S	-2
YbBO3	Calcite	411805	Yb	3	B	3	B	3	O	-2
YBO3	ABX3 – other	J Alloy and Compounds, 372, 40-48 (2008)	Y	3	B	3	B	3	O	-2
Zn2BiPO6	A2BB'X6 – other	91234	Zn	2	Bi	3	P	5	O	-2
Zn2BiVO6	A2BB'X6 – other	193538	Zn	2	Bi	3	V	5	O	-2
Zn2Mo3O8	A2B3X8	14321	Zn	2	Mo	4	Mo	4	O	-2
Zn2PdO4	Spinel	30076	Zn	2	Pd	4	Pd	4	O	-2
Zn2Te3O8	A2B3X8	16784	Zn	2	Te	4	Te	4	O	-2
ZnCO3	Calcite	100679	Zn	2	C	4	C	4	O	-2
ZnGeO3	Ilmenite	33722	Zn	2	Ge	4	Ge	4	O	-2
ZnMn3O7	AB3X7	192706	Zn	2	Mn	4	Mn	4	O	-2
ZnSe2O5	AB2X5	2355	Zn	2	Se	4	Se	4	O	-2
ZnSiO3	Ilmenite	167186	Zn	2	Si	4	Si	4	O	-2
ZnVSe2O7	ABB'2X7	249713	Zn	2	V	4	Se	4	O	-2