

Supporting Information for

Chemical Trends in the Thermodynamic Stability and Bandgaps of 980 Halide Double Perovskites: A High-Throughput First-Principles Study

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Table S1. The 112 thermodynamically stable double-perovskites and 27 double-perovskites which had been reported to be stable in literature and are actually unstable after considering more competing compounds. The decomposition paths that determine their energies above convex hull E_{hull} are also listed.

Compound	Decomposition Path	E_{hull}	Stability
Cs ₂ AgAlF ₆	0.333333*Ag ₂ F+0.166667*Cs ₂ AgF ₄ +0.5*Cs ₃ Al ₂ F ₉ +0.166667*CsAgF ₃	-0.00868	stable
Cs ₂ AgBiBr ₆	0.75*AgBr+0.25*Cs ₂ AgBr ₃ +0.5*Cs ₃ Bi ₂ Br ₉	-0.01436	stable
Cs ₂ AgBiCl ₆	1.0*AgCl+0.333333*Cs ₃ Bi ₂ Cl ₉ +0.333333*Cs ₃ BiCl ₆	-0.02753	stable
Cs ₂ AgBiF ₆	0.333333*Ag ₂ F+0.166667*Cs ₂ AgF ₄ +0.5*Cs ₃ Bi ₂ F ₉ +0.166667*CsAgF ₃	-0.04612	stable
Cs ₂ AgGaF ₆	0.333333*Ag ₂ F+0.166667*Cs ₂ AgF ₄ +0.5*Cs ₃ Ga ₂ F ₉ +0.166667*CsAgF ₃	-0.01637	stable
Cs ₂ AgInCl ₆	0.5*AgCl+0.5*Cs ₃ In ₂ Cl ₉ +0.5*CsAgCl ₂	-0.00553	stable
Cs ₂ AgInF ₆	0.333333*Ag ₂ F+0.166667*Cs ₂ AgF ₄ +0.5*Cs ₃ In ₂ F ₉ +0.166667*CsAgF ₃	-0.03674	stable
Cs ₂ AgSbCl ₆	0.5*AgCl+0.5*Cs ₃ Sb ₂ Cl ₉ +0.5*CsAgCl ₂	-0.00352	stable
Cs ₂ AgScCl ₆	0.5*AgCl+0.5*Cs ₃ Sc ₂ Cl ₉ +0.5*CsAgCl ₂	-0.00356	stable
Cs ₂ AgScF ₆	0.333333*Ag ₂ F+0.444444*Cs ₃ Sc ₂ F ₉ +0.111111*Cs ₃ ScF ₆ +0.333333*CsAgF ₃	-0.02532	stable
Cs ₂ AgYCl ₆	1.0*AgCl+1.0*Cs ₂ YCl ₅	-0.00913	stable
Cs ₂ AgYF ₆	0.333333*Ag ₂ F+0.166667*Cs ₂ AgF ₄ +0.5*Cs ₃ Y ₂ F ₉ +0.166667*CsAgF ₃	-0.03559	stable
Cs ₂ CsAlF ₆	0.5*Cs ₃ Al ₂ F ₉ +1.5*CsF	-0.03912	stable
Cs ₂ CsBiF ₆	0.5*Cs ₃ Bi ₂ F ₉ +1.5*CsF	-0.04456	stable
Cs ₂ CsGaF ₆	0.5*Cs ₃ Ga ₂ F ₉ +1.5*CsF	-0.03851	stable
Cs ₂ CsInF ₆	0.5*Cs ₃ In ₂ F ₉ +1.5*CsF	-0.04597	stable
Cs ₂ CsYF ₆	1.0*Cs ₃ YF ₆	-0.03406	stable
Cs ₂ KAlF ₆	0.5*Cs ₃ Al ₂ F ₉ +0.5*CsF+1.0*KF	-0.06486	stable
Cs ₂ KBiBr ₆	0.5*Cs ₃ Bi ₂ Br ₉ +0.5*CsBr+1.0*KBr	-0.0004	stable
Cs ₂ KBiCl ₆	0.5*Cs ₃ BiCl ₆ +0.5*CsK ₂ BiCl ₆	-0.00368	stable
Cs ₂ KBiF ₆	0.25*Cs ₃ Bi ₂ F ₉ +1.25*CsF+0.5*K ₂ BiF ₅	-0.06259	stable
Cs ₂ KGaF ₆	0.5*Cs ₃ Ga ₂ F ₉ +0.5*CsF+1.0*KF	-0.06695	stable
Cs ₂ KInCl ₆	0.5*Cs ₃ In ₂ Cl ₉ +0.5*CsCl+1.0*KCl	-0.00797	stable
Cs ₂ KInF ₆	0.333333*Cs ₃ In ₂ F ₉ +1.0*CsF+0.333333*K ₃ InF ₆	-0.07112	stable
Cs ₂ KScCl ₆	0.333333*Cs ₃ Sc ₂ Cl ₉ +0.333333*Cs ₃ ScCl ₆ +1.0*KCl	-0.0089	stable
Cs ₂ KScF ₆	0.666667*Cs ₃ ScF ₆ +0.666666*KF+0.333333*KScF ₄	-0.046	stable
Cs ₂ KYBr ₆	0.5*Cs ₃ Y ₂ Br ₉ +0.5*CsBr+1.0*KBr	-0.00108	stable
Cs ₂ KYCl ₆	1.0*Cs ₂ YCl ₅ +1.0*KCl	-0.00727	stable
Cs ₂ KYF ₆	2.0*CsF+1.0*KYF ₄	-0.04967	stable
Cs ₂ LiBiBr ₆	0.5*Cs ₃ Bi ₂ Br ₉ +0.5*CsBr+1.0*LiBr	-0.0047	stable
Cs ₂ LiBiCl ₆	0.333333*Cs ₃ Bi ₂ Cl ₉ +0.333333*Cs ₃ BiCl ₆ +1.0*LiCl	-0.00552	stable
Cs ₂ LiBiF ₆	0.5*Cs ₃ Bi ₂ F ₉ +0.5*CsLiF ₂ +0.5*LiF	-0.02017	stable
Cs ₂ LiInF ₆	0.5*Cs ₃ In ₂ F ₉ +0.5*CsLiF ₂ +0.5*LiF	-0.00218	stable
Cs ₂ LiYBr ₆	0.5*Cs ₃ Y ₂ Br ₉ +0.5*CsBr+1.0*LiBr	-0.00369	stable
Cs ₂ LiYCl ₆	1.0*Cs ₂ YCl ₅ +1.0*LiCl	-0.00142	stable
Cs ₂ LiYF ₆	0.666667*Cs ₃ YF ₆ +0.666666*LiF+0.333333*LiYF ₄	-0.00705	stable
Cs ₂ NaBiBr ₆	0.5*Cs ₃ Bi ₂ Br ₉ +0.5*CsBr+1.0*NaBr	-0.01378	stable
Cs ₂ NaBiCl ₆	0.333333*Cs ₃ Bi ₂ Cl ₉ +0.333333*Cs ₃ BiCl ₆ +1.0*NaCl	-0.02039	stable
Cs ₂ NaBiF ₆	0.5*Cs ₃ Bi ₂ F ₉ +0.5*CsF+1.0*NaF	-0.07337	stable

Cs ₂ NaInCl ₆	0.5*Cs ₃ In ₂ Cl ₉ +0.5*CsCl+1.0*NaCl	-0.01278	stable
Cs ₂ NaInF ₆	0.5*Cs ₃ In ₂ F ₉ +0.5*CsF+1.0*NaF	-0.06608	stable
Cs ₂ NaScBr ₆	0.5*Cs ₃ Sc ₂ Br ₉ +0.5*CsBr+1.0*NaBr	-0.00052	stable
Cs ₂ NaScCl ₆	0.333333*Cs ₃ Sc ₂ Cl ₉ +0.333333*Cs ₃ ScCl ₆ +1.0*NaCl	-0.01641	stable
Cs ₂ NaScF ₆	0.666667*Cs ₃ ScF ₆ +0.333333*Na ₃ ScF ₆	-0.03096	stable
Cs ₂ NaYBr ₆	0.5*Cs ₃ Y ₂ Br ₉ +0.5*CsBr+1.0*NaBr	-0.01477	stable
Cs ₂ NaYCl ₆	1.0*Cs ₂ YCl ₅ +1.0*NaCl	-0.01868	stable
Cs ₂ NaYF ₆	0.666667*Cs ₃ YF ₆ +0.666666*NaF+0.333333*NaYF ₄	-0.0632	stable
Cs ₂ RbAlF ₆	0.5*Cs ₃ Al ₂ F ₉ +0.5*CsF+1.0*RbF	-0.05893	stable
Cs ₂ RbBiF ₆	0.5*Cs ₃ Bi ₂ F ₉ +0.5*CsF+1.0*RbF	-0.06618	stable
Cs ₂ RbGaF ₆	0.5*Cs ₃ Ga ₂ F ₉ +0.5*CsF+1.0*RbF	-0.05903	stable
Cs ₂ RbInF ₆	0.5*Cs ₃ In ₂ F ₉ +0.5*CsF+1.0*RbF	-0.06799	stable
Cs ₂ RbScF ₆	0.666667*Cs ₃ ScF ₆ +0.333333*Rb ₃ ScF ₆	-0.01487	stable
Cs ₂ RbYF ₆	0.333333*Cs ₃ Y ₂ F ₉ +0.333333*Cs ₃ YF ₆ +1.0*RbF	-0.05995	stable
K ₂ AgAlF ₆	1.0*AgF+1.0*K ₂ AlF ₅	-0.00355	stable
K ₂ AgBiCl ₆	1.0*AgCl+0.5*K ₃ Bi ₂ Cl ₉ +0.5*KCl	-0.01599	stable
K ₂ AgGaF ₆	0.333333*Ag ₂ F+0.166667*K ₂ AgF ₄ +0.5*K ₃ Ga ₂ F ₉ +0.166667*KAgF ₃	-0.02165	stable
K ₂ KGaF ₆	0.5*K ₃ Ga ₂ F ₉ +1.5*KF	-0.03861	stable
K ₂ KScF ₆	2.0*KF+1.0*KScF ₄	-0.0108	stable
K ₂ LiBiCl ₆	0.5*K ₃ Bi ₂ Cl ₉ +0.5*KCl+1.0*LiCl	-0.00728	stable
K ₂ LiGaF ₆	0.5*K ₃ Ga ₂ F ₉ +0.5*KF+1.0*LiF	-0.05104	stable
K ₂ LiInF ₆	0.25*K ₃ InF ₆ +0.25*K ₅ In ₃ F ₁₄ +1.0*LiF	-0.00069	stable
K ₂ LiScCl ₆	0.5*K ₃ Sc ₂ Cl ₉ +0.5*KCl+1.0*LiCl	-0.00286	stable
K ₂ LiScF ₆	1.0*KF+1.0*KScF ₄ +1.0*LiF	-0.03343	stable
K ₂ NaAlF ₆	1.0*K ₂ AlF ₅ +1.0*NaF	-0.05016	stable
K ₂ NaBiCl ₆	0.5*K ₃ Bi ₂ Cl ₉ +0.5*KCl+1.0*NaCl	-0.00585	stable
K ₂ NaGaF ₆	0.5*K ₃ Ga ₂ F ₉ +0.5*KF+1.0*NaF	-0.07348	stable
K ₂ NaInF ₆	0.666667*K ₃ InF ₆ +0.333333*Na ₃ InF ₆	-0.01359	stable
K ₂ NaScCl ₆	0.5*K ₃ Sc ₂ Cl ₉ +0.5*KCl+1.0*NaCl	-0.00203	stable
K ₂ NaScF ₆	1.0*KF+1.0*KScF ₄ +1.0*NaF	-0.04946	stable
Rb ₂ AgAlF ₆	0.333333*Ag ₂ F+0.5*Rb ₃ Al ₂ F ₉ +0.333333*RbAgF ₃ +0.166667*RbF	-0.02662	stable
Rb ₂ AgBiCl ₆	0.75*AgCl+0.25*Rb ₂ AgCl ₃ +0.5*Rb ₃ Bi ₂ Cl ₉	-0.0279	stable
Rb ₂ AgGaF ₆	0.333333*Ag ₂ F+0.5*Rb ₃ Ga ₂ F ₉ +0.333333*RbAgF ₃ +0.166667*RbF	-0.02702	stable
Rb ₂ AgInCl ₆	0.75*AgCl+0.25*Rb ₂ AgCl ₃ +0.5*Rb ₃ In ₂ Cl ₉	-0.0043	stable
Rb ₂ AgInF ₆	0.333333*Ag ₂ F+0.5*Rb ₃ In ₂ F ₉ +0.333333*RbAgF ₃ +0.166667*RbF	-0.03558	stable
Rb ₂ AgSbCl ₆	0.75*AgCl+0.25*Rb ₂ AgCl ₃ +0.5*Rb ₃ Sb ₂ Cl ₉	-0.01098	stable
Rb ₂ AgScCl ₆	0.75*AgCl+0.25*Rb ₂ AgCl ₃ +0.5*Rb ₃ Sc ₂ Cl ₉	-0.00288	stable
Rb ₂ AgScF ₆	0.333333*Ag ₂ F+0.555556*Rb ₃ ScF ₆ +0.333333*RbAgF ₃ +0.444445*ScF ₃	-0.02149	stable
Rb ₂ AgYF ₆	0.333333*Ag ₂ F+0.333333*RbAgF ₃ +1.666667*RbF+1.0*YF ₃	-0.02322	stable
Rb ₂ CsAlF ₆	0.333333*Cs ₃ Al ₂ F ₉ +0.333333*RbAlF ₄ +1.666667*RbF	-0.00881	stable
Rb ₂ CsGaF ₆	0.333333*Cs ₃ Ga ₂ F ₉ +0.333333*GaF ₃ +2.0*RbF	-0.03053	stable
Rb ₂ CsInF ₆	0.333333*Cs ₃ In ₂ F ₉ +0.111111*Rb ₂ In ₃ F ₁₁ +1.777778*RbF	-0.00175	stable
Rb ₂ KAlF ₆	0.5*K ₂ AlF ₅ +0.5*RbAlF ₄ +1.5*RbF	-0.06882	stable

Rb ₂ KBiF ₆	0.5*K ₂ BiF ₅ +0.166667*RbBi ₃ F ₁₀ +1.833334*RbF	-0.01813	stable
Rb ₂ KScCl ₆	0.333333*K ₃ Sc ₂ Cl ₉ +2.0*RbCl+0.333333*ScCl ₃	-0.02151	stable
Rb ₂ LiAlF ₆	1.0*LiF+1.0*RbAlF ₄ +1.0*RbF	-0.03322	stable
Rb ₂ LiBiCl ₆	1.0*BiCl ₃ +1.0*LiCl+2.0*RbCl	-0.0654	stable
Rb ₂ LiInCl ₆	0.666667*InCl ₃ +0.333333*Li ₃ InCl ₆ +2.0*RbCl	-0.07406	stable
Rb ₂ LiInF ₆	1.0*LiF+0.333333*Rb ₂ In ₃ F ₁₁ +1.333333*RbF	-0.05913	stable
Rb ₂ LiSbCl ₆	1.0*LiCl+2.0*RbCl+1.0*SbCl ₃	-0.02154	stable
Rb ₂ LiScCl ₆	1.0*LiCl+2.0*RbCl+1.0*ScCl ₃	-0.04396	stable
Rb ₂ LiScF ₆	1.0*LiF+0.666667*Rb ₃ ScF ₆ +0.333333*ScF ₃	-0.01352	stable
Rb ₂ LiScI ₆	1.0*LiI+2.0*RbI+1.0*ScI ₃	-0.00077	stable
Rb ₂ LiYBr ₆	1.0*LiBr+2.0*RbBr+1.0*YBr ₃	-0.0113	stable
Rb ₂ LiYF ₆	1.0*LiYF ₄ +2.0*RbF	-0.01558	stable
Rb ₂ NaAlF ₆	0.333333*Na ₃ AlF ₆ +0.666667*RbAlF ₄ +1.333333*RbF	-0.07996	stable
Rb ₂ NaBiCl ₆	1.0*BiCl ₃ +1.0*NaCl+2.0*RbCl	-0.07028	stable
Rb ₂ NaBiF ₆	1.0*NaF+0.333333*RbBi ₃ F ₁₀ +1.666667*RbF	-0.05651	stable
Rb ₂ NaGaF ₆	0.4*GaF ₃ +0.2*Na ₃ Ga ₃ F ₁₄ +2.0*RbF	-0.13379	stable
Rb ₂ NaInCl ₆	0.666667*InCl ₃ +0.333333*Na ₃ InCl ₆ +2.0*RbCl	-0.06904	stable
Rb ₂ NaInF ₆	0.333333*Na ₃ InF ₆ +0.222222*Rb ₂ In ₃ F ₁₁ +1.555555*RbF	-0.08904	stable
Rb ₂ NaSbCl ₆	1.0*NaCl+2.0*RbCl+1.0*SbCl ₃	-0.02631	stable
Rb ₂ NaSbF ₆	0.5*Na ₂ SbF ₅ +1.75*RbF+0.25*RbSb ₂ F ₇	-0.02467	stable
Rb ₂ NaScCl ₆	1.0*NaScCl ₄ +2.0*RbCl	-0.05033	stable
Rb ₂ NaScF ₆	0.333333*Na ₃ ScF ₆ +0.666667*Rb ₃ ScF ₆	-0.03811	stable
Rb ₂ NaScI ₆	1.0*NaI+2.0*RbI+1.0*ScI ₃	-0.00442	stable
Rb ₂ NaYBr ₆	1.0*NaBr+2.0*RbBr+1.0*YBr ₃	-0.01399	stable
Rb ₂ NaYCl ₆	1.0*NaCl+0.6*Rb ₃ YCl ₆ +0.2*RbY ₂ Cl ₇	-0.00076	stable
Rb ₂ NaYF ₆	1.0*NaYF ₄ +2.0*RbF	-0.04509	stable
Rb ₂ RbAlF ₆	0.5*Rb ₃ Al ₂ F ₉ +1.5*RbF	-0.04354	stable
Rb ₂ RbGaF ₆	0.5*Rb ₃ Ga ₂ F ₉ +1.5*RbF	-0.03885	stable
Rb ₂ RbInF ₆	0.5*Rb ₃ In ₂ F ₉ +1.5*RbF	-0.04189	stable
Rb ₂ RbYF ₆	3.0*RbF+1.0*YF ₃	-0.02783	stable
Cs ₂ NaSbF ₆	1.0*C ₂ SbF ₅ +1.0*NaF	0.03228	unstable/reported stable
Cs ₂ NaSbCl ₆	0.5*C ₂ Sb ₂ Cl ₉ +0.5*CsCl+1.0*NaCl	0.00143	unstable/reported stable
Cs ₂ NaSbBr ₆	0.5*C ₂ Sb ₂ Br ₉ +0.5*CsBr+1.0*NaBr	0.01321	unstable/reported stable
Cs ₂ NaSbI ₆	0.5*C ₂ Sb ₂ I ₉ +0.5*CsI+1.0*NaI	0.02996	unstable/reported stable
Cs ₂ NaBiI ₆	0.5*C ₂ Bi ₂ I ₉ +0.5*CsI+1.0*NaI	0.00966	unstable/reported stable
Cs ₂ KSbF ₆	1.0*C ₂ SbF ₅ +1.0*KF	0.02365	unstable/reported stable
Cs ₂ KSbCl ₆	0.5*C ₂ Sb ₂ Cl ₉ +0.5*CsCl+1.0*KCl	0.01225	unstable/reported stable
Cs ₂ KSbBr ₆	0.5*C ₂ Sb ₂ Br ₉ +0.5*CsBr+1.0*KBr	0.02631	unstable/reported stable
Cs ₂ RbSbF ₆	1.0*C ₂ SbF ₅ +1.0*RbF	0.03498	unstable/reported stable
Cs ₂ RbSbCl ₆	0.5*C ₂ Sb ₂ Cl ₉ +0.5*CsCl+1.0*RbCl	0.02468	unstable/reported stable
Cs ₂ RbSbBr ₆	0.5*C ₂ Sb ₂ Br ₉ +0.5*CsBr+1.0*RbBr	0.03769	unstable/reported stable
Cs ₂ RbBiCl ₆	0.333333*Cs ₃ Bi ₂ Cl ₉ +0.333333*Cs ₃ BiCl ₆ +1.0*RbCl	0.00356	unstable/reported stable
Cs ₂ RbBiBr ₆	0.5*Cs ₃ Bi ₂ Br ₉ +0.5*CsBr+1.0*RbBr	0.0111	unstable/reported stable

$\text{Cs}_2\text{CuSbF}_6$	$0.714286*\text{Cs}_2\text{SbF}_5+0.071429*\text{Cs}_4\text{Cu}_3\text{F}_{10}+0.285714*\text{CsSbF}_6+0.785714*\text{Cu}$	0.18852	unstable/reported stable
$\text{Cs}_2\text{CuSbCl}_6$	$0.5*\text{Cs}_3\text{Sb}_2\text{Cl}_9+0.5*\text{CsCu}_2\text{Cl}_3$	0.0729	unstable/reported stable
$\text{Cs}_2\text{CuSbBr}_6$	$0.5*\text{Cs}_3\text{Sb}_2\text{Br}_9+0.5*\text{CsCu}_2\text{Br}_3$	0.07451	unstable/reported stable
$\text{Cs}_2\text{CuBiF}_6$	$0.111111*\text{BiF}_3+0.444444*\text{Cs}_3\text{Bi}_2\text{F}_9+0.166667*\text{Cs}_4\text{Cu}_3\text{F}_{10}+0.5*\text{Cu}$	0.0858	unstable/reported stable
$\text{Cs}_2\text{CuBiCl}_6$	$0.5*\text{Cs}_3\text{Bi}_2\text{Cl}_9+0.5*\text{CsCu}_2\text{Cl}_3$	0.04644	unstable/reported stable
$\text{Cs}_2\text{CuBiBr}_6$	$0.5*\text{Cs}_3\text{Bi}_2\text{Br}_9+0.5*\text{CsCu}_2\text{Br}_3$	0.05251	unstable/reported stable
$\text{Cs}_2\text{AgSbF}_6$	$1.0*\text{Ag}+0.5*\text{Cs}_2\text{SbF}_5+0.5*\text{CsF}+0.5*\text{CsSbF}_6$	0.08711	unstable/reported stable
$\text{Cs}_2\text{AgSbBr}_6$	$0.75*\text{AgBr}+0.25*\text{Cs}_2\text{AgBr}_3+0.5*\text{Cs}_3\text{Sb}_2\text{Br}_9$	0.00764	unstable/reported stable
$\text{Cs}_2\text{AgSbI}_6$	$0.75*\text{AgI}+0.25*\text{Cs}_2\text{AgI}_3+0.5*\text{Cs}_3\text{Sb}_2\text{I}_9$	0.02779	unstable/reported stable
$\text{Cs}_2\text{AgBiI}_6$	$0.75*\text{AgI}+0.25*\text{Cs}_2\text{AgI}_3+0.5*\text{Cs}_3\text{Bi}_2\text{I}_9$	0.01258	unstable/reported stable
$\text{Cs}_2\text{AgInBr}_6$	$0.75*\text{AgBr}+0.25*\text{Cs}_2\text{AgBr}_3+0.5*\text{Cs}_3\text{In}_2\text{Br}_9$	0.01076	unstable/reported stable
$\text{Rb}_2\text{AgInBr}_6$	$0.5*\text{Rb}_2\text{AgBr}_3+0.5*\text{AgBr}+1*\text{RbInBr}_4$	0.0306	unstable/reported stable
$\text{Rb}_2\text{CuInCl}_6$	$0.5*\text{Cu}+0.5*\text{Rb}_3\text{In}_2\text{Cl}_9+0.5*\text{RbCuCl}_3$	0.0631	unstable/reported stable
$\text{Rb}_2\text{CuInBr}_6$	$0.5*\text{Rb}_3\text{In}_2\text{Br}_9+0.5*\text{RbCu}_2\text{Br}_3$	0.07345	unstable/reported stable

Table S2. The double-perovskites which are slightly unstable with positive E_{hull} in the range 0-0.1 eV/atom. The decomposition paths that determine their energies above convex hull E_{hull} are also listed.

Compound	Decomposition Path	E_{hull}	Stability
Rb_2KGaF_6	$1.0*\text{KRb}_2\text{GaF}_6$	0.00029	unstable
K_2AgScF_6	$0.333333*\text{Ag}_2\text{F}+0.333333*\text{K}_2\text{AgF}_4+0.333333*\text{KF}+1.0*\text{KScF}_4$	0.00126	unstable
$\text{Cs}_2\text{NaSbCl}_6$	$0.5*\text{Cs}_3\text{Sb}_2\text{Cl}_9+0.5*\text{CsCl}+1.0*\text{NaCl}$	0.00143	unstable
K_2LiAlF_6	$1.0*\text{K}_2\text{LiAlF}_6$	0.00161	unstable
Cs_2NaYI_6	$0.5*\text{Cs}_3\text{Y}_2\text{I}_9+0.5*\text{CsI}+1.0*\text{NaI}$	0.0026	unstable
$\text{Rb}_2\text{LiSbF}_6$	$1.0*\text{LiF}+1.5*\text{RbF}+0.5*\text{RbSb}_2\text{F}_7$	0.00285	unstable
$\text{Cs}_2\text{RbInCl}_6$	$0.5*\text{Cs}_3\text{In}_2\text{Cl}_9+0.5*\text{CsCl}+1.0*\text{RbCl}$	0.00317	unstable
$\text{Rb}_2\text{LiInBr}_6$	$1.0*\text{InBr}_3+1.0*\text{LiBr}+2.0*\text{RbBr}$	0.00347	unstable
$\text{Cs}_2\text{RbBiCl}_6$	$0.333333*\text{Cs}_3\text{Bi}_2\text{Cl}_9+0.333333*\text{Cs}_3\text{BiCl}_6+1.0*\text{RbCl}$	0.00356	unstable
$\text{Cs}_2\text{RbScCl}_6$	$0.333333*\text{Cs}_3\text{Sc}_2\text{Cl}_9+0.333333*\text{Cs}_3\text{ScCl}_6+1.0*\text{RbCl}$	0.00394	unstable
$\text{K}_2\text{AgScCl}_6$	$1.0*\text{AgCl}+0.5*\text{K}_3\text{Sc}_2\text{Cl}_9+0.5*\text{KCl}$	0.00432	unstable
$\text{Cs}_2\text{NaInBr}_6$	$0.5*\text{Cs}_3\text{In}_2\text{Br}_9+0.5*\text{CsBr}+1.0*\text{NaBr}$	0.00434	unstable
$\text{Rb}_2\text{LiYCl}_6$	$1.0*\text{LiCl}+0.6*\text{Rb}_3\text{YCl}_6+0.2*\text{RbY}_2\text{Cl}_7$	0.00492	unstable
$\text{Cs}_2\text{AgYBr}_6$	$0.75*\text{AgBr}+0.25*\text{Cs}_2\text{AgBr}_3+0.5*\text{Cs}_3\text{Y}_2\text{Br}_9$	0.00546	unstable
$\text{Cs}_2\text{RbYCl}_6$	$1.0*\text{Cs}_2\text{YCl}_5+1.0*\text{RbCl}$	0.00647	unstable
$\text{Rb}_2\text{RbSbF}_6$	$2.5*\text{RbF}+0.5*\text{RbSb}_2\text{F}_7$	0.00702	unstable
$\text{Rb}_2\text{NaScBr}_6$	$1.0*\text{NaBr}+0.5*\text{Rb}_3\text{Sc}_2\text{Br}_9+0.5*\text{RbBr}$	0.00755	unstable
$\text{Cs}_2\text{AgSbBr}_6$	$0.75*\text{AgBr}+0.25*\text{Cs}_2\text{AgBr}_3+0.5*\text{Cs}_3\text{Sb}_2\text{Br}_9$	0.00764	unstable
$\text{Rb}_2\text{KSbCl}_6$	$0.5*\text{K}_2\text{SbCl}_5+2.0*\text{RbCl}+0.5*\text{SbCl}_3$	0.00772	unstable
$\text{Rb}_2\text{AgYCl}_6$	$1.0*\text{AgCl}+0.6*\text{Rb}_3\text{YCl}_6+0.2*\text{RbY}_2\text{Cl}_7$	0.0078	unstable
Rb_2KYBr_6	$1.0*\text{KBr}+2.0*\text{RbBr}+1.0*\text{YBr}_3$	0.0083	unstable

Cs ₂ NaGaF ₆	1.0*Cs ₂ NaGaF ₆	0.00879	unstable
Rb ₂ AgBiBr ₆	1.0*AgBr+0.333333*Rb ₃ Bi ₂ Br ₉ +0.333333*Rb ₃ BiBr ₆	0.0088	unstable
Cs ₂ NaBiI ₆	0.5*Cs ₃ Bi ₂ I ₉ +0.5*CsI+1.0*NaI	0.00966	unstable
Cs ₂ KScBr ₆	0.5*Cs ₃ Sc ₂ Br ₉ +0.5*CsBr+1.0*KBr	0.00997	unstable
Cs ₂ LiYI ₆	0.5*Cs ₃ Y ₂ I ₉ +0.5*CsI+1.0*LiI	0.01006	unstable
Rb ₂ KSBf ₆	0.5*K ₂ SbF ₅ +1.75*RbF+0.25*RbSb ₂ F ₇	0.0104	unstable
Cs ₂ AgInBr ₆	0.75*AgBr+0.25*Cs ₂ AgBr ₃ +0.5*Cs ₃ In ₂ Br ₉	0.01076	unstable
Cs ₂ RbBiBr ₆	0.5*Cs ₃ Bi ₂ Br ₉ +0.5*CsBr+1.0*RbBr	0.0111	unstable
Cs ₂ NaScI ₆	0.5*Cs ₃ Sc ₂ I ₉ +0.5*CsI+1.0*NaI	0.01156	unstable
Cs ₂ RbYBr ₆	0.5*Cs ₃ Y ₂ Br ₉ +0.5*CsBr+1.0*RbBr	0.01171	unstable
Rb ₂ KScF ₆	1.0*KRb ₂ ScF ₆	0.01194	unstable
Cs ₂ KInBr ₆	0.5*Cs ₃ In ₂ Br ₉ +0.5*CsBr+1.0*KBr	0.01213	unstable
Rb ₂ LiScBr ₆	1.0*LiBr+0.5*Rb ₃ Sc ₂ Br ₉ +0.5*RbBr	0.01214	unstable
Rb ₂ AgYBr ₆	0.75*AgBr+0.25*Rb ₂ AgBr ₃ +0.5*Rb ₃ Y ₂ Br ₉	0.01217	unstable
Cs ₂ KSbCl ₆	0.5*Cs ₃ Sb ₂ Cl ₉ +0.5*CsCl+1.0*KCl	0.01225	unstable
Cs ₂ CsScF ₆	1.0*Cs ₃ ScF ₆	0.01231	unstable
Cs ₂ AgBiI ₆	0.75*AgI+0.25*Cs ₂ AgI ₃ +0.5*Cs ₃ Bi ₂ I ₉	0.01258	unstable
Cs ₂ LiScCl ₆	1.0*Cs ₂ LiScCl ₆	0.01298	unstable
K ₂ RbAlF ₆	1.0*K ₂ AlF ₅ +1.0*RbF	0.01304	unstable
Cs ₂ NaSbBr ₆	0.5*Cs ₃ Sb ₂ Br ₉ +0.5*CsBr+1.0*NaBr	0.01321	unstable
Cs ₂ LiInCl ₆	1.0*Cs ₂ LiInCl ₆	0.01357	unstable
Cs ₂ LiScBr ₆	0.5*Cs ₃ Sc ₂ Br ₉ +0.5*CsBr+1.0*LiBr	0.01376	unstable
K ₂ AgInCl ₆	1.0*AgCl+0.333333*K ₃ In ₂ Cl ₉ +0.333333*K ₃ InCl ₆	0.01403	unstable
K ₂ LiScBr ₆	0.5*K ₃ Sc ₂ Br ₉ +0.5*KBr+1.0*LiBr	0.01439	unstable
Rb ₂ LiGaF ₆	1.0*Rb ₂ LiGaF ₆	0.01439	unstable
Cs ₂ LiBiI ₆	0.5*Cs ₃ Bi ₂ I ₉ +0.5*CsI+1.0*LiI	0.01513	unstable
Rb ₂ RbBiCl ₆	0.5*Rb ₃ Bi ₂ Cl ₉ +1.5*RbCl	0.01534	unstable
Rb ₂ AgInBr ₆	0.5*Rb ₂ AgBr ₃ +0.5*AgBr+1*RbInBr ₄	0.0306	unstable
Rb ₂ CsBiF ₆	0.333333*Cs ₃ Bi ₂ F ₉ +0.111111*RbBi ₃ F ₁₀ +1.888889*RbF	0.01577	unstable
Cs ₂ NaAlF ₆	1.0*Cs ₂ NaAlF ₆	0.01611	unstable
Rb ₂ NaBiBr ₆	1.0*NaBr+0.333333*Rb ₃ Bi ₂ Br ₉ +0.333333*Rb ₃ BiBr ₆	0.0162	unstable
K ₂ AgSbBr ₆	1.0*AgBr+0.5*K ₃ Sb ₂ Br ₉ +0.5*KBr	0.01631	unstable
Rb ₂ KInF ₆	1.0*KRb ₂ InF ₆	0.01633	unstable
Rb ₂ CsYF ₆	0.333333*Cs ₃ Y ₂ F ₉ +2.0*RbF+0.333333*YF ₃	0.01639	unstable
Rb ₂ KScI ₆	0.333333*K ₃ Sc ₂ I ₉ +2.0*RbI+0.333333*ScI ₃	0.01721	unstable
K ₂ NaScBr ₆	0.333333*K ₃ Sc ₂ Br ₉ +1.0*KBr+0.333333*Na ₃ ScBr ₆	0.01722	unstable
Cs ₂ KYI ₆	0.5*Cs ₃ Y ₂ I ₉ +0.5*CsI+1.0*KI	0.01786	unstable
Rb ₂ LiBiBr ₆	1.0*LiBr+0.333333*Rb ₃ Bi ₂ Br ₉ +0.333333*Rb ₃ BiBr ₆	0.01799	unstable
Cs ₂ AgScBr ₆	0.75*AgBr+0.25*Cs ₂ AgBr ₃ +0.5*Cs ₃ Sc ₂ Br ₉	0.01841	unstable
Cs ₂ LiSbCl ₆	0.5*Cs ₃ Sb ₂ Cl ₉ +0.5*CsLiCl ₂ +0.5*LiCl	0.01846	unstable
K ₂ AgBiBr ₆	1.0*AgBr+1.0*BiBr ₃ +2.0*KBr	0.01876	unstable
K ₂ LiInCl ₆	0.333333*K ₃ In ₂ Cl ₉ +0.333333*K ₃ InCl ₆ +1.0*LiCl	0.01884	unstable
Na ₂ LiGaF ₆	1.0*LiF+0.333333*Na ₅ Ga ₃ F ₁₄ +0.333333*NaF	0.01917	unstable

$\text{Cs}_2\text{LiInBr}_6$	$0.5*\text{Cs}_3\text{In}_2\text{Br}_9+0.5*\text{CsBr}+1.0*\text{LiBr}$	0.01932	unstable
$\text{Rb}_2\text{AgSbBr}_6$	$0.75*\text{AgBr}+0.25*\text{Rb}_2\text{AgBr}_3+0.5*\text{Rb}_3\text{Sb}_2\text{Br}_9$	0.02064	unstable
$\text{Rb}_2\text{RbScF}_6$	$1.0*\text{Rb}_3\text{ScF}_6$	0.02068	unstable
$\text{Cs}_2\text{LiScI}_6$	$0.5*\text{Cs}_3\text{Sc}_2\text{I}_9+0.5*\text{CsI}+1.0*\text{LiI}$	0.02121	unstable
$\text{Cs}_2\text{CsInCl}_6$	$0.5*\text{Cs}_3\text{In}_2\text{Cl}_9+1.5*\text{CsCl}$	0.02128	unstable
$\text{Cs}_2\text{RbScBr}_6$	$0.5*\text{Cs}_3\text{Sc}_2\text{Br}_9+0.5*\text{CsBr}+1.0*\text{RbBr}$	0.02197	unstable
K_2KBiCl_6	$0.5*\text{K}_3\text{Bi}_2\text{Cl}_9+1.5*\text{KCl}$	0.02197	unstable
$\text{Rb}_2\text{AgScBr}_6$	$0.75*\text{AgBr}+0.25*\text{Rb}_2\text{AgBr}_3+0.5*\text{Rb}_3\text{Sc}_2\text{Br}_9$	0.02206	unstable
$\text{Cs}_2\text{RbInBr}_6$	$0.5*\text{Cs}_3\text{In}_2\text{Br}_9+0.5*\text{CsBr}+1.0*\text{RbBr}$	0.02222	unstable
$\text{Cs}_2\text{LiSbBr}_6$	$0.5*\text{Cs}_3\text{Sb}_2\text{Br}_9+0.5*\text{CsBr}+1.0*\text{LiBr}$	0.02226	unstable
Cs_2KSbF_6	$1.0*\text{Cs}_2\text{SbF}_5+1.0*\text{KF}$	0.02365	unstable
K_2LiYBr_6	$2.0*\text{KBr}+1.0*\text{LiBr}+1.0*\text{YBr}_3$	0.02371	unstable
Cs_2KScI_6	$0.5*\text{Cs}_3\text{Sc}_2\text{I}_9+0.5*\text{CsI}+1.0*\text{KI}$	0.0245	unstable
$\text{Cs}_2\text{RbSbCl}_6$	$0.5*\text{Cs}_3\text{Sb}_2\text{Cl}_9+0.5*\text{CsCl}+1.0*\text{RbCl}$	0.02468	unstable
Rb_2NaYI_6	$1.0*\text{NaI}+2.0*\text{RbI}+1.0*\text{YI}_3$	0.02469	unstable
$\text{K}_2\text{LiBiBr}_6$	$1.0*\text{BiBr}_3+2.0*\text{KBr}+1.0*\text{LiBr}$	0.02495	unstable
Cs_2KBiI_6	$0.5*\text{Cs}_3\text{Bi}_2\text{I}_9+0.5*\text{CsI}+1.0*\text{KI}$	0.02501	unstable
$\text{K}_2\text{AgSbCl}_6$	$1.0*\text{AgCl}+1.0*\text{K}_2\text{SbCl}_5$	0.02581	unstable
K_2LiYCl_6	$1.0*\text{K}_2\text{YCl}_5+1.0*\text{LiCl}$	0.02619	unstable
$\text{Cs}_2\text{KSbBr}_6$	$0.5*\text{Cs}_3\text{Sb}_2\text{Br}_9+0.5*\text{CsBr}+1.0*\text{KBr}$	0.02631	unstable
K_2NaYBr_6	$2.0*\text{KBr}+1.0*\text{NaBr}+1.0*\text{YBr}_3$	0.02652	unstable
$\text{Rb}_2\text{RbScCl}_6$	$0.5*\text{Rb}_3\text{Sc}_2\text{Cl}_9+1.5*\text{RbCl}$	0.02686	unstable
Rb_2LiYI_6	$1.0*\text{LiI}+2.0*\text{RbI}+1.0*\text{YI}_3$	0.02695	unstable
$\text{K}_2\text{AgScBr}_6$	$1.0*\text{AgBr}+0.5*\text{K}_3\text{Sc}_2\text{Br}_9+0.5*\text{KBr}$	0.02721	unstable
$\text{Cs}_2\text{LiScF}_6$	$0.333333*\text{Cs}_3\text{Sc}_2\text{F}_9+0.333333*\text{Cs}_3\text{ScF}_6+1.0*\text{LiF}$	0.02739	unstable
K_2AgInF_6	$0.333333*\text{Ag}_2\text{F}+0.333333*\text{K}_5\text{In}_3\text{F}_{14}+0.333333*\text{KAgF}_3$	0.02747	unstable
$\text{Cs}_2\text{CsBiBr}_6$	$0.5*\text{Cs}_3\text{Bi}_2\text{Br}_9+1.5*\text{CsBr}$	0.02754	unstable
$\text{Cs}_2\text{CsYCl}_6$	$1.0*\text{Cs}_2\text{YCl}_5+1.0*\text{CsCl}$	0.02758	unstable
$\text{K}_2\text{LiSbBr}_6$	$0.5*\text{K}_3\text{Sb}_2\text{Br}_9+0.5*\text{KBr}+1.0*\text{LiBr}$	0.02759	unstable
$\text{Rb}_2\text{RbInCl}_6$	$0.5*\text{Rb}_3\text{In}_2\text{Cl}_9+1.5*\text{RbCl}$	0.02774	unstable
$\text{Cs}_2\text{AgSbI}_6$	$0.75*\text{AgI}+0.25*\text{Cs}_2\text{AgI}_3+0.5*\text{Cs}_3\text{Sb}_2\text{I}_9$	0.02779	unstable
K_2NaYCl_6	$1.0*\text{K}_2\text{YCl}_5+1.0*\text{NaCl}$	0.02792	unstable
$\text{K}_2\text{NaBiBr}_6$	$1.0*\text{BiBr}_3+2.0*\text{KBr}+1.0*\text{NaBr}$	0.02796	unstable
$\text{Rb}_2\text{KScBr}_6$	$1.0*\text{KBr}+0.5*\text{Rb}_3\text{Sc}_2\text{Br}_9+0.5*\text{RbBr}$	0.02834	unstable
$\text{K}_2\text{NaInCl}_6$	$0.666667*\text{K}_3\text{InCl}_6+0.333333*\text{Na}_3\text{InCl}_6$	0.02904	unstable
$\text{Cs}_2\text{CsScCl}_6$	$1.0*\text{Cs}_3\text{ScCl}_6$	0.02905	unstable
K_2KScCl_6	$0.5*\text{K}_3\text{Sc}_2\text{Cl}_9+1.5*\text{KCl}$	0.02908	unstable
Cs_2RbYI_6	$0.5*\text{Cs}_3\text{Y}_2\text{I}_9+0.5*\text{CsI}+1.0*\text{RbI}$	0.02964	unstable
Cs_2AgYI_6	$0.75*\text{AgI}+0.25*\text{Cs}_2\text{AgI}_3+0.5*\text{Cs}_3\text{Y}_2\text{I}_9$	0.02983	unstable
$\text{Cs}_2\text{NaSbI}_6$	$0.5*\text{Cs}_3\text{Sb}_2\text{I}_9+0.5*\text{CsI}+1.0*\text{NaI}$	0.02996	unstable
Rb_2KYF_6	$1.0*\text{KRb}_2\text{YF}_6$	0.03065	unstable
K_2NaBiF_6	$1.0*\text{K}_2\text{BiF}_5+1.0*\text{NaF}$	0.03076	unstable
$\text{Cs}_2\text{CsYBr}_6$	$0.5*\text{Cs}_3\text{Y}_2\text{Br}_9+1.5*\text{CsBr}$	0.03085	unstable

$K_2NaSbBr_6$	$0.5*K_3Sb_2Br_9+0.5*KBr+1.0*NaBr$	0.03131	unstable
Rb_2KYCl_6	$0.333333*K_3YCl_6+0.666667*Rb_3YCl_6$	0.0314	unstable
$Rb_2NaSbBr_6$	$1.0*NaBr+0.5*Rb_3Sb_2Br_9+0.5*RbBr$	0.03143	unstable
K_2RbGaF_6	$0.25*K_3Ga_2F_9+0.75*KF+0.5*KRb_2GaF_6$	0.03164	unstable
Rb_2AgBiI_6	$0.75*AgI+0.25*Rb_2AgI_3+0.5*Rb_3Bi_2I_9$	0.03191	unstable
Cs_2NaSbF_6	$1.0*C_{S_2}SbF_5+1.0*NaF$	0.03228	unstable
K_2NaYF_6	$1.0*K_2YF_5+1.0*NaF$	0.03244	unstable
$Rb_2LiSbBr_6$	$1.0*LiBr+0.5*Rb_3Sb_2Br_9+0.5*RbBr$	0.03292	unstable
Cs_2KAlCl_6	$1.0*CsAlCl_4+1.0*CsCl+1.0*KCl$	0.03301	unstable
$Rb_2CuBiCl_6$	$0.5*Cu+0.5*Rb_3Bi_2Cl_9+0.5*RbCuCl_3$	0.03389	unstable
$K_2CuBiCl_6$	$0.75*CuCl+0.25*K_2CuCl_3+0.5*K_3Bi_2Cl_9$	0.03404	unstable
Rb_2NaBiI_6	$1.0*NaI+0.5*Rb_3Bi_2I_9+0.5*RbI$	0.03408	unstable
Na_2LiAlF_6	$0.333333*Na_3AlF_6+0.333333*Na_3Li_3Al_2F_{12}$	0.03413	unstable
Rb_2RbYBr_6	$0.5*Rb_3Y_2Br_9+1.5*RbBr$	0.03415	unstable
K_2LiScI_6	$0.5*K_3Sc_2I_9+0.5*KI+1.0*LiI$	0.03443	unstable
Rb_2LiBiI_6	$1.0*LiI+0.5*Rb_3Bi_2I_9+0.5*RbI$	0.03484	unstable
K_2NaScI_6	$0.5*K_3Sc_2I_9+0.5*KI+1.0*NaI$	0.03486	unstable
Cs_2RbSbF_6	$1.0*C_{S_2}SbF_5+1.0*RbF$	0.03498	unstable
Rb_2KInBr_6	$1.0*KInBr_4+2.0*RbBr$	0.0352	unstable
Cs_2LiSbI_6	$0.5*C_{S_2}SbI_9+0.5*CsI+1.0*LiI$	0.03543	unstable
Cs_2RbBiI_6	$0.5*C_{S_2}Bi_2I_9+0.5*CsI+1.0*RbI$	0.0355	unstable
Cs_2RbScI_6	$0.5*C_{S_2}Sc_2I_9+0.5*CsI+1.0*RbI$	0.0356	unstable
$Rb_2NaAlCl_6$	$1.0*NaCl+1.0*RbAlCl_4+1.0*RbCl$	0.0359	unstable
$Cs_2NaAlCl_6$	$1.0*CsAlCl_4+1.0*CsCl+1.0*NaCl$	0.0362	unstable
K_2AgYCl_6	$1.0*AgCl+1.0*K_2YCl_5$	0.03648	unstable
Rb_2KBiBr_6	$1.0*KBr+0.333333*Rb_3Bi_2Br_9+0.333333*Rb_3BiBr_6$	0.03698	unstable
K_2KInF_6	$1.0*K_3InF_6$	0.0374	unstable
$Cs_2CsInBr_6$	$0.5*C_{S_3}In_2Br_9+1.5*CsBr$	0.03766	unstable
Cs_2AgScI_6	$0.75*AgI+0.25*C_{S_2}AgI_3+0.5*C_{S_3}Sc_2I_9$	0.03767	unstable
$Cs_2RbSbBr_6$	$0.5*C_{S_3}Sb_2Br_9+0.5*CsBr+1.0*RbBr$	0.03769	unstable
$Rb_2RbSbCl_6$	$0.5*Rb_3Sb_2Cl_9+1.5*RbCl$	0.03786	unstable
$Rb_2CsInCl_6$	$0.333333*C_{S_3}In_2Cl_9+0.333333*InCl_3+2.0*RbCl$	0.03802	unstable
$K_2LiSbCl_6$	$1.0*K_2SbCl_5+1.0*LiCl$	0.03912	unstable
$Cs_2CsBiCl_6$	$1.0*C_{S_3}BiCl_6$	0.03917	unstable
K_2AgYBr_6	$1.0*AgBr+2.0*KBr+1.0*YBr_3$	0.03973	unstable
$K_2RbBiCl_6$	$0.5*K_3Bi_2Cl_9+0.5*KCl+1.0*RbCl$	0.0403	unstable
$Cs_2CsScBr_6$	$0.5*C_{S_3}Sc_2Br_9+1.5*CsBr$	0.04052	unstable
Na_2NaGaF_6	$0.333333*Na_5Ga_3F_{14}+1.333333*NaF$	0.04093	unstable
$K_2NaSbCl_6$	$1.0*K_2SbCl_5+1.0*NaCl$	0.04124	unstable
$Cs_2RbAlCl_6$	$1.0*CsAlCl_4+1.0*CsCl+1.0*RbCl$	0.04225	unstable
Cs_2KAlI_6	$1.0*AlI_3+2.0*CsI+1.0*KI$	0.04297	unstable
$Cs_2CsSbCl_6$	$0.5*C_{S_3}Sb_2Cl_9+1.5*CsCl$	0.04339	unstable
Rb_2AgScI_6	$0.75*AgI+0.25*Rb_2AgI_3+0.5*Rb_3Sc_2I_9$	0.04347	unstable

Rb ₂ CsBiCl ₆	0.333333*BiCl ₃ +0.333333*Cs ₃ Bi ₂ Cl ₉ +2.0*RbCl	0.04353	unstable
K ₂ KScBr ₆	0.5*K ₃ Sc ₂ Br ₉ +1.5*KBr	0.04369	unstable
Rb ₂ AgSbI ₆	0.75*AgI+0.25*Rb ₂ AgI ₃ +0.5*Rb ₃ Sb ₂ I ₉	0.044	unstable
Rb ₂ RbScBr ₆	0.5*Rb ₃ Sc ₂ Br ₉ +1.5*RbBr	0.04424	unstable
Cs ₂ NaInI ₆	1.0*CsI+1.0*CsInI ₄ +1.0*NaI	0.04471	unstable
Rb ₂ RbInBr ₆	0.5*Rb ₃ In ₂ Br ₉ +1.5*RbBr	0.04474	unstable
K ₂ LiBiF ₆	1.0*K ₂ BiF ₅ +1.0*LiF	0.0452	unstable
Rb ₂ KYI ₆	1.0*KI+2.0*RbI+1.0*YI ₃	0.04545	unstable
Cs ₂ KSbI ₆	0.5*Cs ₃ Sb ₂ I ₉ +0.5*CsI+1.0*KI	0.04562	unstable
Cs ₂ CsYI ₆	0.5*Cs ₃ Y ₂ I ₉ +1.5*CsI	0.04615	unstable
Cs ₂ CuBiCl ₆	0.5*Cs ₃ Bi ₂ Cl ₉ +0.5*CsCu ₂ Cl ₃	0.04644	unstable
K ₂ LiYF ₆	1.0*K ₂ YF ₅ +1.0*LiF	0.04677	unstable
Cs ₂ CsBiI ₆	0.5*Cs ₃ Bi ₂ I ₉ +1.5*CsI	0.04941	unstable
Rb ₂ KAlCl ₆	1.0*KCl+1.0*RbAlCl ₄ +1.0*RbCl	0.04941	unstable
Rb ₂ AgYI ₆	1.0*Rb ₂ AgI ₃ +1.0*YI ₃	0.04965	unstable
Rb ₂ CuSbCl ₆	0.5*Cu+0.5*Rb ₃ Sb ₂ Cl ₉ +0.5*RbCuCl ₃	0.05032	unstable
K ₂ RbScCl ₆	0.5*K ₃ Sc ₂ Cl ₉ +0.5*KCl+1.0*RbCl	0.05042	unstable
Cs ₂ RbAlI ₆	1.0*AlI ₃ +2.0*CsI+1.0*RbI	0.05117	unstable
Cs ₂ CsScI ₆	0.5*Cs ₃ Sc ₂ I ₉ +1.5*CsI	0.0513	unstable
Cs ₂ LiAlI ₆	1.0*AlI ₃ +2.0*CsI+1.0*LiI	0.05158	unstable
K ₂ NaAlCl ₆	1.0*KAlCl ₄ +1.0*KCl+1.0*NaCl	0.05172	unstable
Rb ₂ NaSbI ₆	1.0*NaI+0.5*Rb ₃ Sb ₂ I ₉ +0.5*RbI	0.05196	unstable
Cs ₂ KGaCl ₆	1.0*CsCl+1.0*CsGaCl ₄ +1.0*KCl	0.05197	unstable
Rb ₂ LiSbI ₆	1.0*LiI+0.5*Rb ₃ Sb ₂ I ₉ +0.5*RbI	0.05212	unstable
Rb ₂ AgAlCl ₆	0.5*AgCl+0.5*Rb ₂ AgCl ₃ +1.0*RbAlCl ₄	0.05246	unstable
Rb ₂ LiAlCl ₆	1.0*LiCl+1.0*RbAlCl ₄ +1.0*RbCl	0.05247	unstable
Cs ₂ CuBiBr ₆	0.5*Cs ₃ Bi ₂ Br ₉ +0.5*CsCu ₂ Br ₃	0.05251	unstable
K ₂ CsGaF ₆	0.333333*Cs ₃ Ga ₂ F ₉ +1.666667*KF+0.333333*KGaF ₄	0.05253	unstable
Rb ₂ KSbBr ₆	1.0*KBr+0.5*Rb ₃ Sb ₂ Br ₉ +0.5*RbBr	0.05262	unstable
K ₂ AgScI ₆	1.0*AgI+0.5*K ₃ Sc ₂ I ₉ +0.5*KI	0.05296	unstable
Cs ₂ NaGaCl ₆	1.0*CsCl+1.0*CsGaCl ₄ +1.0*NaCl	0.05315	unstable
Cs ₂ AgInI ₆	0.5*AgI+0.5*Cs ₂ AgI ₃ +1.0*CsInI ₄	0.05316	unstable
K ₂ KBiBr ₆	1.0*BiBr ₃ +3.0*KBr	0.05344	unstable
K ₂ AgInBr ₆	1.0*AgBr+1.0*KBr+1.0*KInBr ₄	0.05362	unstable
Cs ₂ CsSbBr ₆	0.5*Cs ₃ Sb ₂ Br ₉ +1.5*CsBr	0.05394	unstable
Rb ₂ CsScCl ₆	0.333333*Cs ₃ Sc ₂ Cl ₉ +2.0*RbCl+0.333333*ScCl ₃	0.05417	unstable
Cs ₂ LiInI ₆	1.0*CsI+1.0*CsInI ₄ +1.0*LiI	0.05437	unstable
Rb ₂ KBiI ₆	1.0*KI+0.5*Rb ₃ Bi ₂ I ₉ +0.5*RbI	0.05442	unstable
K ₂ KYBr ₆	3.0*KBr+1.0*YBr ₃	0.05451	unstable
K ₂ RbScF ₆	1.0*KF+0.5*KRb ₂ ScF ₆ +0.5*KScF ₄	0.05498	unstable
Rb ₂ RbScI ₆	0.5*Rb ₃ Sc ₂ I ₉ +1.5*RbI	0.05518	unstable
Cs ₂ NaAlBr ₆	1.0*CsAlBr ₄ +1.0*CsBr+1.0*NaBr	0.05544	unstable
Cs ₂ NaAlI ₆	2.0*CsI+1.0*NaAlI ₄	0.05567	unstable

Cs_2KInI_6	$1.0*\text{CsI}+1.0*\text{CsInI}_4+1.0*\text{KI}$	0.05596	unstable
$\text{Cs}_2\text{RbSbI}_6$	$0.5*\text{Cs}_3\text{Sb}_2\text{I}_9+0.5*\text{CsI}+1.0*\text{RbI}$	0.056	unstable
$\text{Rb}_2\text{NaGaCl}_6$	$1.0*\text{NaCl}+1.0*\text{RbCl}+1.0*\text{RbGaCl}_4$	0.056	unstable
$\text{K}_2\text{NaInBr}_6$	$1.0*\text{KBr}+1.0*\text{KInBr}_4+1.0*\text{NaBr}$	0.05601	unstable
$\text{Cs}_2\text{CsSbF}_6$	$1.0*\text{Cs}_2\text{SbF}_5+1.0*\text{CsF}$	0.0564	unstable
K_2CsAlF_6	$0.333333*\text{Cs}_3\text{Al}_2\text{F}_9+0.333333*\text{K}_2\text{AlF}_5+1.333333*\text{KF}$	0.05659	unstable
$\text{K}_2\text{LiInBr}_6$	$1.0*\text{KBr}+1.0*\text{KInBr}_4+1.0*\text{LiBr}$	0.0568	unstable
$\text{Cs}_2\text{KAlBr}_6$	$1.0*\text{CsAlBr}_4+1.0*\text{CsBr}+1.0*\text{KBr}$	0.05702	unstable
$\text{Rb}_2\text{RbYCl}_6$	$1.0*\text{Rb}_3\text{YCl}_6$	0.05719	unstable
K_2KSbBr_6	$0.5*\text{K}_3\text{Sb}_2\text{Br}_9+1.5*\text{KBr}$	0.05769	unstable
$\text{Rb}_2\text{CsScF}_6$	$0.333333*\text{Cs}_3\text{ScF}_6+0.666667*\text{Rb}_3\text{ScF}_6$	0.05786	unstable
K_2NaSbF_6	$1.0*\text{K}_2\text{SbF}_5+1.0*\text{NaF}$	0.05789	unstable
$\text{K}_2\text{LiAlCl}_6$	$1.0*\text{KAlCl}_4+1.0*\text{KCl}+1.0*\text{LiCl}$	0.05808	unstable
K_2KScI_6	$0.5*\text{K}_3\text{Sc}_2\text{I}_9+1.5*\text{KI}$	0.05842	unstable
K_2AgBiI_6	$1.0*\text{AgI}+1.0*\text{BiI}_3+2.0*\text{KI}$	0.0589	unstable
Rb_2RbYI_6	$3.0*\text{RbI}+1.0*\text{YI}_3$	0.05933	unstable
$\text{Cs}_2\text{CsAlCl}_6$	$1.0*\text{CsAlCl}_4+2.0*\text{CsCl}$	0.05956	unstable
$\text{Rb}_2\text{RbBiBr}_6$	$1.0*\text{Rb}_3\text{BiBr}_6$	0.05967	unstable
$\text{Cs}_2\text{LiGaF}_6$	$1.0*\text{Cs}_2\text{LiGaF}_6$	0.05968	unstable
$\text{K}_2\text{AgAlCl}_6$	$1.0*\text{AgCl}+1.0*\text{KAlCl}_4+1.0*\text{KCl}$	0.06057	unstable
$\text{Rb}_2\text{AgGaCl}_6$	$0.5*\text{AgCl}+0.5*\text{Rb}_2\text{AgCl}_3+1.0*\text{RbGaCl}_4$	0.06117	unstable
$\text{Cs}_2\text{RbGaCl}_6$	$1.0*\text{CsCl}+1.0*\text{CsGaCl}_4+1.0*\text{RbCl}$	0.0613	unstable
$\text{Na}_2\text{NaAlF}_6$	$1.0*\text{Na}_3\text{AlF}_6$	0.06135	unstable
$\text{Cs}_2\text{AgAlCl}_6$	$1.0*\text{CsAgCl}_2+1.0*\text{CsAlCl}_4$	0.06144	unstable
K_2LiYI_6	$2.0*\text{KI}+1.0*\text{LiI}+1.0*\text{YI}_3$	0.06167	unstable
$\text{Rb}_2\text{NaAlBr}_6$	$1.0*\text{NaBr}+1.0*\text{RbAlBr}_4+1.0*\text{RbBr}$	0.06169	unstable
$\text{K}_2\text{RbInCl}_6$	$0.333333*\text{K}_3\text{In}_2\text{Cl}_9+0.333333*\text{K}_3\text{InCl}_6+1.0*\text{RbCl}$	0.06183	unstable
K_2LiBiI_6	$1.0*\text{BiI}_3+2.0*\text{KI}+1.0*\text{LiI}$	0.06187	unstable
$\text{K}_2\text{CuSbBr}_6$	$0.75*\text{CuBr}+0.25*\text{K}_2\text{CuBr}_3+0.5*\text{K}_3\text{Sb}_2\text{Br}_9$	0.0619	unstable
K_2NaYI_6	$2.0*\text{KI}+1.0*\text{NaI}+1.0*\text{YI}_3$	0.06301	unstable
$\text{Rb}_2\text{CuInCl}_6$	$0.5*\text{Cu}+0.5*\text{Rb}_3\text{In}_2\text{Cl}_9+0.5*\text{RbCuCl}_3$	0.0631	unstable
$\text{Cs}_2\text{CsAlI}_6$	$1.0*\text{AlI}_3+3.0*\text{CsI}$	0.06327	unstable
K_2KBiF_6	$1.0*\text{K}_2\text{BiF}_5+1.0*\text{KF}$	0.06334	unstable
$\text{Cs}_2\text{AgAlI}_6$	$1.0*\text{AlI}_3+1.0*\text{Cs}_2\text{AgI}_3$	0.06363	unstable
$\text{Rb}_2\text{CuBiBr}_6$	$0.5*\text{Rb}_3\text{Bi}_2\text{Br}_9+0.5*\text{RbCu}_2\text{Br}_3$	0.06395	unstable
K_2NaBiI_6	$1.0*\text{BiI}_3+2.0*\text{KI}+1.0*\text{NaI}$	0.06431	unstable
K_2AgBiF_6	$1.0*\text{AgF}+1.0*\text{K}_2\text{BiF}_5$	0.06448	unstable
$\text{K}_2\text{CuScCl}_6$	$0.75*\text{CuCl}+0.25*\text{K}_2\text{CuCl}_3+0.5*\text{K}_3\text{Sc}_2\text{Cl}_9$	0.06455	unstable
K_2KInCl_6	$1.0*\text{K}_3\text{InCl}_6$	0.06486	unstable
K_2AgSbI_6	$1.0*\text{AgI}+2.0*\text{KI}+1.0*\text{SbI}_3$	0.06509	unstable
$\text{Rb}_2\text{RbAlCl}_6$	$1.0*\text{RbAlCl}_4+2.0*\text{RbCl}$	0.06515	unstable
K_2KYCl_6	$1.0*\text{K}_3\text{YCl}_6$	0.06533	unstable
$\text{Cs}_2\text{RbInI}_6$	$1.0*\text{CsI}+1.0*\text{CsInI}_4+1.0*\text{RbI}$	0.06535	unstable

Cs ₂ RbAlBr ₆	1.0*CsAlBr ₄ +1.0*CsBr+1.0*RbBr	0.06572	unstable
K ₂ CuInCl ₆	1.0*CuC1+0.333333*K ₃ In ₂ Cl ₉ +0.333333*K ₃ InCl ₆	0.06621	unstable
Cs ₂ NaGaI ₆	2.0*CsI+1.0*GaI ₃ +1.0*NaI	0.06626	unstable
Rb ₂ RbBiI ₆	0.5*Rb ₃ Bi ₂ I ₉ +1.5*RbI	0.06672	unstable
Rb ₂ RbSbBr ₆	0.5*Rb ₃ Sb ₂ Br ₉ +1.5*RbBr	0.06692	unstable
K ₂ CuBiBr ₆	1.0*BiBr ₃ +1.0*K ₂ CuBr ₃	0.06715	unstable
Cs ₂ AgGaCl ₆	1.0*CsAgCl ₂ +1.0*CsGaCl ₄	0.0679	unstable
Cs ₂ CsSbI ₆	0.5*C ₃ Sb ₂ I ₉ +1.5*CsI	0.06971	unstable
Rb ₂ AgSbF ₆	1.0*Ag+1.25*RbF+0.25*RbSb ₂ F ₇ +0.5*RbSbF ₆	0.06983	unstable
K ₂ KSbCl ₆	1.0*K ₂ SbCl ₅ +1.0*KCl	0.06997	unstable
Cs ₂ LiAlCl ₆	1.0*CsAlCl ₄ +1.0*CsLiCl ₂	0.07011	unstable
Rb ₂ CsYBr ₆	0.333333*Cs ₃ Y ₂ Br ₉ +2.0*RbBr+0.333333*YBr ₃	0.07029	unstable
Rb ₂ KGaCl ₆	1.0*KCl+1.0*RbCl+1.0*RbGaCl ₄	0.07042	unstable
Rb ₂ LiGaCl ₆	1.0*LiCl+1.0*RbCl+1.0*RbGaCl ₄	0.07048	unstable
K ₂ KYF ₆	1.0*K ₃ YF ₆	0.07099	unstable
Rb ₂ CuScCl ₆	0.5*Cu+0.5*Rb ₃ Sc ₂ Cl ₉ +0.5*RbCuCl ₃	0.07222	unstable
Cs ₂ AgGaI ₆	1.0*Cs ₂ AgI ₃ +1.0*GaI ₃	0.07246	unstable
K ₂ RbYBr ₆	2.0*KBr+1.0*RbBr+1.0*YBr ₃	0.0725	unstable
K ₂ AgGaCl ₆	1.0*AgCl+1.0*KCl+1.0*KGaCl ₄	0.0728	unstable
K ₂ CuSbCl ₆	1.0*C _u Cl+1.0*K ₂ SbCl ₅	0.07288	unstable
Cs ₂ CuSbCl ₆	0.5*C ₃ Sb ₂ Cl ₉ +0.5*CsCu ₂ Cl ₃	0.0729	unstable
Rb ₂ KSbI ₆	1.0*KI+0.5*Rb ₃ Sb ₂ I ₉ +0.5*RbI	0.07291	unstable
K ₂ LiSbF ₆	1.0*K ₂ SbF ₅ +1.0*LiF	0.07303	unstable
Rb ₂ CsInBr ₆	0.333333*Cs ₃ In ₂ Br ₉ +0.333333*InBr ₃ +2.0*RbBr	0.07308	unstable
K ₂ LiSbI ₆	2.0*KI+1.0*LiI+1.0*SbI ₃	0.07327	unstable
Rb ₂ LiAlBr ₆	1.0*LiBr+1.0*RbAlBr ₄ +1.0*RbBr	0.07337	unstable
Rb ₂ CuInBr ₆	0.5*Rb ₃ In ₂ Br ₉ +0.5*RbCu ₂ Br ₃	0.07345	unstable
K ₂ RbScI ₆	0.5*K ₃ Sc ₂ I ₉ +0.5*KI+1.0*RbI	0.0737	unstable
Cs ₂ CuSbBr ₆	0.5*C ₃ Sb ₂ Br ₉ +0.5*CsCu ₂ Br ₃	0.07451	unstable
Rb ₂ LiAlI ₆	1.0*AlI ₃ +1.0*LiI+2.0*RbI	0.07486	unstable
Rb ₂ KAlBr ₆	1.0*KBr+1.0*RbAlBr ₄ +1.0*RbBr	0.07488	unstable
Cs ₂ NaGaBr ₆	1.0*CsBr+1.0*CsGaBr ₄ +1.0*NaBr	0.07522	unstable
K ₂ NaGaCl ₆	1.0*KCl+1.0*KGaCl ₄ +1.0*NaCl	0.07594	unstable
K ₂ KAlCl ₆	1.0*KAlCl ₄ +2.0*KCl	0.07623	unstable
Rb ₂ NaInI ₆	1.0*NaI+1.0*RbI+1.0*RbInI ₄	0.07628	unstable
K ₂ NaSbI ₆	2.0*KI+1.0*NaI+1.0*SbI ₃	0.0766	unstable
K ₂ AgInI ₆	1.0*AgI+1.0*InI ₃ +2.0*KI	0.07701	unstable
Rb ₂ CuSbBr ₆	0.5*Rb ₃ Sb ₂ Br ₉ +0.5*RbCu ₂ Br ₃	0.07702	unstable
Cs ₂ CuYCl ₆	0.5*C ₃ Y ₂ Cl ₉ +0.5*CsCu ₂ Cl ₃	0.07703	unstable
Rb ₂ CsSbCl ₆	0.333333*Cs ₃ Sb ₂ Cl ₉ +2.0*RbCl+0.333333*SbCl ₃	0.0772	unstable
K ₂ AgYF ₆	0.333333*Ag ₂ F+0.666667*K ₂ YF ₅ +0.333333*KA ₂ F ₃ +0.333333*KYF ₄	0.07734	unstable
Cs ₂ LiAlBr ₆	1.0*CsAlBr ₄ +1.0*CsBr+1.0*LiBr	0.07742	unstable
Rb ₂ CsSbF ₆	0.428571*Cs ₂ SbF ₅ +0.142857*CsRb ₂ Sb ₄ F ₁₅ +1.714286*RbF	0.07788	unstable

Rb ₂ AgAlBr ₆	0.5*AgBr+0.5*Rb ₂ AgBr ₃ +1.0*RbAlBr ₄	0.07789	unstable
Cs ₂ CsGaCl ₆	2.0*CsCl+1.0*CsGaCl ₄	0.07791	unstable
Cs ₂ CsInI ₆	2.0*CsI+1.0*CsInI ₄	0.07805	unstable
Rb ₂ AgInI ₆	0.5*AgI+0.5*Rb ₂ AgI ₃ +1.0*RbInI ₄	0.07827	unstable
Cs ₂ AgAlBr ₆	0.5*AgBr+0.5*C _s ₂ AgBr ₃ +1.0*C _s AlBr ₄	0.07838	unstable
Cs ₂ CuInCl ₆	0.5*C _s ₂ In ₂ Cl ₉ +0.5*C _s Cu ₂ Cl ₃	0.07839	unstable
Rb ₂ CuYCl ₆	0.5*C _u +0.4*Rb ₃ YCl ₆ +0.5*RbCuCl ₃ +0.3*RbY ₂ Cl ₇	0.0785	unstable
Cs ₂ KGaBr ₆	1.0*C _s Br+1.0*C _s GaBr ₄ +1.0*KBr	0.0787	unstable
K ₂ KInBr ₆	2.0*KBr+1.0*KInBr ₄	0.07901	unstable
Cs ₂ CuBiI ₆	0.5*C _s ₃ Bi ₂ I ₉ +0.166667*C _s ₃ Cu ₂ I ₅ +0.666666*C _u I	0.07902	unstable
Na ₂ LiScF ₆	0.333333*Na ₃ Li ₃ Sc ₂ F ₁₂ +0.333333*Na ₃ ScF ₆	0.07908	unstable
Rb ₂ KAlI ₆	1.0*AlI ₃ +1.0*KI+2.0*RbI	0.07926	unstable
Rb ₂ CsBiBr ₆	0.333333*C _s ₃ Bi ₂ Br ₉ +0.333333*Rb ₃ BiBr ₆ +1.0*RbBr	0.07927	unstable
Cs ₂ LiAlF ₆	1.0*C _s ₂ LiAlF ₆	0.07945	unstable
Cs ₂ CuInBr ₆	0.5*C _s ₂ In ₂ Br ₉ +0.5*C _s Cu ₂ Br ₃	0.07963	unstable
Rb ₂ CsScI ₆	0.333333*C _s ₃ Sc ₂ I ₉ +2.0*RbI+0.333333*ScI ₃	0.07977	unstable
Cs ₂ CsAlBr ₆	1.0*C _s AlBr ₄ +2.0*C _s Br	0.08057	unstable
K ₂ RbScBr ₆	0.166667*K ₃ Sc ₂ Br ₉ +1.5*KBr+0.333333*Rb ₃ Sc ₂ Br ₉	0.08082	unstable
Rb ₂ LiInI ₆	1.0*LiI+1.0*RbI+1.0*RbInI ₄	0.08085	unstable
K ₂ LiGaCl ₆	1.0*KCl+1.0*KGaCl ₄ +1.0*LiCl	0.08091	unstable
K ₂ RbInF ₆	0.5*K ₃ InF ₆ +0.5*KRb ₂ InF ₆	0.08097	unstable
K ₂ CsScF ₆	0.333333*C _s ₃ ScF ₆ +1.333333*KF+0.666667*KScF ₄	0.08141	unstable
Rb ₂ CsScBr ₆	0.333333*C _s ₃ Sc ₂ Br ₉ +0.166667*Rb ₃ Sc ₂ Br ₉ +1.5*RbBr	0.08158	unstable
Rb ₂ CuYBr ₆	0.5*Rb ₃ Y ₂ Br ₉ +0.5*RbCu ₂ Br ₃	0.08195	unstable
Rb ₂ CuInF ₆	0.5*C _u +0.5*Rb ₃ In ₂ F ₉ +0.5*RbCuF ₃	0.08252	unstable
Rb ₂ CsYCl ₆	0.5*C _s ₂ YCl ₅ +0.5*Rb ₃ YCl ₆ +0.5*RbCl	0.08268	unstable
K ₂ AgYI ₆	1.0*AgI+2.0*KI+1.0*YI ₃	0.08311	unstable
K ₂ LiInI ₆	2.0*KI+1.0*LiInI ₄	0.08338	unstable
Cs ₂ LiGaI ₆	2.0*C _s I+1.0*LiGaI ₄	0.08341	unstable
Rb ₂ AgAlI ₆	1.0*AlI ₃ +1.0*Rb ₂ AgI ₃	0.08346	unstable
Cs ₂ RbGaI ₆	2.0*C _s I+1.0*GaI ₃ +1.0*RbI	0.0838	unstable
Rb ₂ NaGaBr ₆	1.0*NaBr+1.0*RbBr+1.0*RbGaBr ₄	0.08381	unstable
Cs ₂ AgGaBr ₆	0.5*AgBr+0.5*C _s ₂ AgBr ₃ +1.0*C _s GaBr ₄	0.08435	unstable
Cs ₂ LiGaCl ₆	1.0*C _s GaCl ₄ +1.0*C _s LiCl ₂	0.08436	unstable
K ₂ CuScBr ₆	0.75*C _u Br+0.25*K ₂ CuBr ₃ +0.5*K ₃ Sc ₂ Br ₉	0.08439	unstable
Rb ₂ NaAlI ₆	1.0*NaAlI ₄ +2.0*RbI	0.08507	unstable
Rb ₂ RbSbI ₆	0.5*Rb ₃ Sb ₂ I ₉ +1.5*RbI	0.0854	unstable
Rb ₂ AgGaBr ₆	0.5*AgBr+0.5*Rb ₂ AgBr ₃ +1.0*RbGaBr ₄	0.0855	unstable
Cs ₂ CuBiF ₆	0.111111*BiF ₃ +0.444444*C _s ₃ Bi ₂ F ₉ +0.166667*C _s ₄ Cu ₃ F ₁₀ +0.5*C _u	0.0858	unstable
Rb ₂ RbGaCl ₆	2.0*RbCl+1.0*RbGaCl ₄	0.08585	unstable
Cs ₂ CuYBr ₆	0.5*C _s ₃ Y ₂ Br ₉ +0.5*C _s Cu ₂ Br ₃	0.08612	unstable
K ₂ NaAlBr ₆	1.0*KAlBr ₄ +1.0*KBr+1.0*NaBr	0.08662	unstable
K ₂ RbBiBr ₆	0.333333*BiBr ₃ +2.0*KBr+0.333333*Rb ₃ Bi ₂ Br ₉	0.08702	unstable

$\text{Cs}_2\text{AgSbF}_6$	$1.0*\text{Ag}+0.5*\text{Cs}_2\text{SbF}_5+0.5*\text{CsF}+0.5*\text{CsSbF}_6$	0.08711	unstable
$\text{Cs}_2\text{RbGaBr}_6$	$1.0*\text{CsBr}+1.0*\text{CsGaBr}_4+1.0*\text{RbBr}$	0.0874	unstable
K_2KYI_6	$3.0*\text{KI}+1.0*\text{YI}_3$	0.08747	unstable
K_2RbBiF_6	$1.0*\text{K}_2\text{BiF}_5+1.0*\text{RbF}$	0.08756	unstable
K_2KBiI_6	$1.0*\text{BiI}_3+3.0*\text{KI}$	0.08796	unstable
Rb_2CsYI_6	$0.333333*\text{Cs}_3\text{Y}_2\text{I}_9+2.0*\text{RbI}+0.333333*\text{YI}_3$	0.0881	unstable
$\text{Rb}_2\text{RbAlBr}_6$	$1.0*\text{RbAlBr}_4+2.0*\text{RbBr}$	0.08828	unstable
$\text{K}_2\text{RbSbCl}_6$	$1.0*\text{K}_2\text{SbCl}_5+1.0*\text{RbCl}$	0.08879	unstable
$\text{Cs}_2\text{LiSbF}_6$	$1.0*\text{Cs}_2\text{SbF}_5+1.0*\text{LiF}$	0.08911	unstable
$\text{Cs}_2\text{CuScCl}_6$	$0.5*\text{Cs}_3\text{Sc}_2\text{Cl}_9+0.5*\text{CsCu}_2\text{Cl}_3$	0.08997	unstable
$\text{Rb}_2\text{RbAlI}_6$	$1.0*\text{AlI}_3+3.0*\text{RbI}$	0.09025	unstable
K_2KSbF_6	$1.0*\text{K}_2\text{SbF}_5+1.0*\text{KF}$	0.09116	unstable
$\text{K}_2\text{LiAlBr}_6$	$1.0*\text{KAlBr}_4+1.0*\text{KBr}+1.0*\text{LiBr}$	0.09131	unstable
$\text{Rb}_2\text{CuScBr}_6$	$0.5*\text{Rb}_3\text{Sc}_2\text{Br}_9+0.5*\text{RbCu}_2\text{Br}_3$	0.09165	unstable
$\text{Rb}_2\text{CsBiI}_6$	$0.333333*\text{Cs}_3\text{Bi}_2\text{I}_9+0.166667*\text{Rb}_3\text{Bi}_2\text{I}_9+1.5*\text{RbI}$	0.09191	unstable
$\text{Rb}_2\text{CuBiI}_6$	$1.0*\text{CuI}+0.5*\text{Rb}_3\text{Bi}_2\text{I}_9+0.5*\text{RbI}$	0.09197	unstable
K_2CsInF_6	$0.166667*\text{Cs}_3\text{In}_2\text{F}_9+0.5*\text{CsF}+0.666667*\text{K}_3\text{InF}_6$	0.09255	unstable
$\text{Rb}_2\text{LiGaBr}_6$	$1.0*\text{LiBr}+1.0*\text{RbBr}+1.0*\text{RbGaBr}_4$	0.09309	unstable
$\text{Rb}_2\text{AgGaI}_6$	$1.0*\text{GaI}_3+1.0*\text{Rb}_2\text{AgI}_3$	0.0931	unstable
Rb_2KInI_6	$1.0*\text{KI}+1.0*\text{RbI}+1.0*\text{RbInI}_4$	0.09324	unstable
$\text{Cs}_2\text{CuSbI}_6$	$0.166667*\text{Cs}_3\text{Cu}_2\text{I}_5+0.5*\text{Cs}_3\text{Sb}_2\text{I}_9+0.666666*\text{CuI}$	0.09332	unstable
K_2RbYCl_6	$0.666667*\text{K}_3\text{YCl}_6+0.333333*\text{Rb}_3\text{YCl}_6$	0.09372	unstable
$\text{Cs}_2\text{LiGaBr}_6$	$1.0*\text{CsBr}+1.0*\text{CsGaBr}_4+1.0*\text{LiBr}$	0.0944	unstable
$\text{K}_2\text{RbInBr}_6$	$1.0*\text{KBr}+1.0*\text{KInBr}_4+1.0*\text{RbBr}$	0.095	unstable
$\text{Cs}_2\text{CsGaI}_6$	$3.0*\text{CsI}+1.0*\text{GaI}_3$	0.09541	unstable
K_2NaInI_6	$2.0*\text{KI}+1.0*\text{NaInI}_4$	0.09648	unstable
$\text{K}_2\text{AgAlBr}_6$	$1.0*\text{AgBr}+1.0*\text{KAlBr}_4+1.0*\text{KBr}$	0.09663	unstable
$\text{Rb}_2\text{NaGaI}_6$	$1.0*\text{GaI}_3+1.0*\text{NaI}+2.0*\text{RbI}$	0.09684	unstable
K_2CuGaF_6	$0.5*\text{Cu}+0.5*\text{K}_3\text{Ga}_2\text{F}_9+0.5*\text{KCuF}_3$	0.097	unstable
K_2CuYCl_6	$1.0*\text{CuCl}+1.0*\text{K}_2\text{YCl}_5$	0.09716	unstable
$\text{Rb}_2\text{KGaBr}_6$	$1.0*\text{KBr}+1.0*\text{RbBr}+1.0*\text{RbGaBr}_4$	0.09819	unstable
$\text{Rb}_2\text{CsSbBr}_6$	$0.333333*\text{Cs}_3\text{Sb}_2\text{Br}_9+0.166667*\text{Rb}_3\text{Sb}_2\text{Br}_9+1.5*\text{RbBr}$	0.09869	unstable
$\text{Na}_2\text{LiInF}_6$	$0.333333*\text{Na}_3\text{InF}_6+0.333333*\text{Na}_3\text{Li}_3\text{In}_2\text{F}_{12}$	0.09895	unstable
K_2CuYBr_6	$1.0*\text{K}_2\text{CuBr}_3+1.0*\text{YBr}_3$	0.09981	unstable
K_2KInI_6	$1.0*\text{InI}_3+3.0*\text{KI}$	0.09987	unstable