

CURIE TEMPERATURE OF SELECTED FERROELECTRIC CRYSTALS

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The following table lists the major ferroelectric crystals and their Curie temperatures, T_C .

Reference

Young, K. F. and Frederikse, H. P. R., *J. Phys. Chem. Ref. Data*, 2, 313, 1973.

Name or acronym	Formula	T_C /K
<i>Potassium dihydrogen phosphate group</i>		
KDP	KH_2PO_4	123
KDA	KH_2AsO_4	97
KDDP	KD_2PO_4	213
KDDA	KD_2AsO_4	162
RDP	RbH_2PO_4	146
RDA	RbH_2AsO_4	111
RDDP	RbD_2PO_4	218
RDDA	RbD_2AsO_4	178
CDP	CsH_2PO_4	159
CDA	CsH_2AsO_4	143
CDDA	CsD_2AsO_4	212
<i>Rochelle salt group</i>		
Rochelle salt	$\text{NaKC}_4\text{H}_4\text{O}_6 \cdot 4\text{H}_2\text{O}$	255–297
Deuterated Rochelle salt	$\text{NaKC}_4\text{H}_2\text{D}_2\text{O}_6 \cdot 4\text{H}_2\text{O}$	251–308
Ammonium Rochelle salt	$\text{NaNH}_4\text{C}_4\text{H}_4\text{O}_6 \cdot 4\text{H}_2\text{O}$	109
LAT	$\text{LiNH}_4\text{C}_4\text{H}_4\text{O}_6 \cdot \text{H}_2\text{O}$	106
<i>Triglycine sulfate group</i>		
TGS	$(\text{NH}_2\text{CH}_2\text{COOH})_3 \cdot \text{H}_2\text{SO}_4$	322
TGSe	$(\text{NH}_2\text{CH}_2\text{COOH})_3 \cdot \text{H}_2\text{SeO}_4$	295
TGFB	$(\text{NH}_2\text{CH}_2\text{COOH})_3 \cdot \text{H}_2\text{BeF}_4$	346
AFB	$(\text{NH}_4)_2\text{BeF}_4$	176
HADA	$\text{HNH}_4(\text{ClCH}_2\text{COO})_2$	128
<i>Perovskites and related compounds</i>		
Barium titanate	BaTiO_3	406, 278, 193
Lead titanate	PbTiO_3	765
Potassium niobate	KNbO_3	712
Potassium tantalate niobate	$\text{KTa}_{2/3}\text{Nb}_{1/3}\text{O}_3$	241, 220, 170
Lithium niobate	LiNbO_3	1483
Lithium tantalate	LiTaO_3	891
Barium titanium niobate	$\text{Ba}_6\text{Ti}_2\text{Nb}_8\text{O}_{30}$	521
Ba-Na niobate ("Bananas")	$\text{Ba}_2\text{NaNb}_5\text{O}_{15}$	833
Potassium iodate	KIO_3	485, 343, 257–263, 83
Lithium iodate	LiIO_3	529
Potassium nitrate	KNO_3	397
Sodium nitrate	NaNO_3	548
Rubidium nitrate	RbNO_3	437–487
<i>Miscellaneous compounds</i>		
Cesium trihydrogen selenite	$\text{CsH}_3(\text{SeO}_3)_2$	143
Lithium trihydrogen selenite	$\text{LiH}_3(\text{SeO}_3)_2$	$T_C > T_{\text{mp}}$
Potassium selenate	K_2SeO_4	93
Methyl ammonium alum (MASD)	$\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	177
Ammonium cadmium sulfate	$(\text{NH}_4)_2\text{Cd}_2(\text{SO}_4)_3$	95
Ammonium bisulfate	$(\text{NH}_4)\text{HSO}_4$	271
Ammonium sulfate	$(\text{NH}_4)_2\text{SO}_4$	224
Ammonium nitrate	NH_4NO_3	398, 357, 305, 255
Colemanite	$\text{CaB}_3\text{O}_4(\text{OH})_3 \cdot \text{H}_2\text{O}$	266
Cadmium pyroniobite	$\text{Cd}_2\text{Nb}_2\text{O}_7$	185
Gadolinium molybdate	$\text{Gd}_2(\text{MoO}_4)_3$	432