

29 CsCd(NO₂)₃ family

29A Pure compounds

No. 29A-1 RbCd(NO₂)₃, Rubidium cadmium trinitrite (*M* = 335.90)

1a	Ferroelectricity in RbCd(NO ₂) ₃ was mentioned by Planta et al. in 1993.		93Pla
b	phase	II	93Pla
	state	(F)	
	crystal system	trigonal ^{a)}	^{a)} 79Nal
	space group	R3–C ₃ ⁴	
	Θ [K]	≈520	
	ρ _x = 3.60 · 10 ³ kg m ^{–3} at RT.		79Nal
	Not hygroscopic.		79Nal
2a	Crystal growth: RbCd(NO ₂) ₃ was synthesized in aqueous solution of Rb ₂ SO ₄ , CdSO ₄ and Ba(NO ₂) ₂ . After removal of the precipitated BaSO ₄ , crystals were grown by slow evaporation method or temperature-lowering method. Multi-domain crystals were obtained.		93Pla
b	Crystal form: pseudocubic macrosymmetry with dominant {100}- and {110}-faces.		93Pla
3a	Unit cell parameters: <i>a</i> = 5.370(2) Å, α = 90.47(2)° at RT.		79Nal
b	<i>Z</i> = 1 in phase II.		79Nal
	Crystal structure: perovskite-like, see		79Nal, 93Pla
5a	Dielectric constant: see		93Pla
15a	Domain structure: see		93Pla