

No. M20-iii RbOH, Rubidium hydroxide $(M = 102.48; [D: 103.48])$

1a	Possibility of ferroelectricity in RbOH was mentioned by Bastow et al. in 1988.					88Bas
b	phase	IV	III	II	I	87Jac
	state	(F)	P	P		
	crystal system	orthorhombic	monoclinic	monoclinic	cubic	
	space group	Cmc2 ₁ – C _{2v} ¹²	P2 ₁ /m – C _{2h} ²	P2 ₁ /m – C _{2h} ²	Fm3m – O _h ⁵	
	Θ [K]	265 [D: 300]	367 [D: 369]	511		
	The phase I' was found in RbOD between the phases II and I with Θ _{I'–I} = 513 K and Θ _{II–I'} = 451 K.					87Jac
	T _{melt} = 637 K.					87Jac
	ρ _X = 3.376 · 10 ³ kg m ^{–3} .					85Jac
3a	Unit cell parameters of RbOH: <i>a</i> = 4.141(2) Å, <i>b</i> = 4.221(2) Å, <i>c</i> = 5.985(3) Å, β = 105.52(4)° at 294 K. <i>a</i> = 6.0802(4) Å at 550 K. <i>a</i> = 4.1578(9) Å, <i>b</i> = 4.2760(7) Å, <i>c</i> = 6.054(1) Å, β = 103.71(2)° at 423 K. <i>a</i> = 4.1506(8) Å, <i>b</i> = 4.245(1) Å, <i>c</i> = 6.030(1) Å, β = 104.53(2)° at 338 K. <i>a</i> = 4.1244(7) Å, <i>b</i> = 11.176(2) Å, <i>c</i> = 4.110(6) Å at 193 K. Unit cell parameters of RbOD: <i>a</i> = 6.075(1) Å at 553 K. <i>a</i> = 4.1550(8) Å, <i>b</i> = 4.2657(8) Å, <i>c</i> = 6.031(1) Å, β = 104.19(2)° at 408 K. <i>a</i> = 4.1468(8) Å, <i>b</i> = 4.2413(7) Å, <i>c</i> = 6.006(1) Å, β = 105.10(2)° at 343 K. <i>a</i> = 4.1246(7) Å, <i>b</i> = 11.099(2) Å, <i>c</i> = 4.213(7) Å at 208 K.					85Jac