

**No. 41A-7 RbLiMoO<sub>4</sub>, Rubidium lithium molybdate***(M* = 252.35)

1a	Ferroelectricity in RbLiMoO <sub>4</sub> was reported by Aleksandrov et al. in 1981.				81Ale
b	phase	IV	III	II	I
	state	F	F	F	P
	crystal system	monoclinic <sup>b)</sup>	orthorhombic <sup>d)</sup>	trigonal <sup>c)</sup>	cubic <sup>a)</sup>
	space group	I111/b – C <sub>s</sub> <sup>4 b)</sup>	Pmm2 – C <sub>2v</sub> <sup>1 d)</sup>	R3m – C <sub>3v</sub> <sup>5 c)</sup>	F $\bar{4}$ 3m – T <sub>d</sub> <sup>2 a)</sup>
	$\Theta$ [K]	394 <sup>c)</sup>		405 <sup>c)</sup>	423 <sup>c)</sup>
	$P_s \parallel [111]$ .				
	$\rho_X = 3.14 \cdot 10^3 \text{ kg m}^{-3}$ .				
3a	Unit cell parameters:				
	Phase I: $a = 8.113(2) \text{ \AA}$ at 423 K.				80Oka
	Phase II: $a = b = 5.740(3) \text{ \AA}$ , $c = 14.112(8) \text{ \AA}$ .				85Ale
	Phase III: $a = 5.739(3) \text{ \AA}$ , $b = 5.751(3) \text{ \AA}$ , $c = 8.110(6) \text{ \AA}$ .				85Ale
	Phase IV: $a = 10.018(2) \text{ \AA}$ , $b = 11.272(2) \text{ \AA}$ , $c = 5.702(1) \text{ \AA}$ , $\gamma = 125.80(3)^\circ$ .				83Kru
b	$Z = 4$ (phase I),				80Oka
	$Z = 3$ (phase II),				85Ale
	$Z = 2$ (phase III),				85Ale
	$Z = 4$ (phase IV).				83Kru
	Crystal structure of phase IV and phase I: Fig. 41A-7-001, Fig. 41A-7-002.				
	Fractional coordinates and temperature parameters: Table 41A-7-001.				
	Interatomic distances and bond angles: Table 41A-7-002.				
16	Twin structure: see				86Mel