M27 $TlNbWO_6 \cdot n\ H_2O$ group

No. M27-i $RbNbWO_6 \cdot n\ H_2O$ (n = 0.13)

1a	Sleight et al. reported in 1978 that noncentrosymmetric noncubic phase of $RbNbWO_6$ changes to a centrosymmetric phase at around 360 K.	78Sle
	Possibility of ferroelectricity in $RbNbWO_6 \cdot 0.13H_2O$ was suggested by Stefanovich et al. in 1985.	85Ste
b	Tetragonal at RT, cubic $Fd3m - O_h^7$ at $T > 370$ K.	85Ste
	$\rho = 5.47 \cdot 10^3$ kg m^{-3}, $\rho_X = 5.45 \cdot 10^3$ kg m^{-3}.	85Ste
2a	Crystal growth: flux method. Ternary system Rb_2O–Nb_2O_5–WO_3 was employed.	85Ste
3a	Unit cell parameters: $a = 10.356$ Å, $c = 10.377$ Å at RT. $a \approx 10.364$ Å at $T > 370$ K.	85Ste
	See also	80Pan
b	Pyrochlore-like structure.	79Fou
5a	Dielectric constant and tan δ of hydrated crystal: Fig. M27-i-001; see also	86Ast
9e	Optical second harmonic generation: Fig. M27-i-002.	
	SHG can be observed at RT, and it disappears above about 370 K.	86Ast
11	Activation energy for the ionic conduction: $E \approx 0.33$ eV (290...450 K), no large change at the transition point of ≈360 K.	86Ast
15	Domain structure: see	85Ste, 86Ast