

No. 35A-17 KTaOGeO₄, Potassium tantanyl germanate
 ($M = 372.65$)

1a	Ferroelectricity in KTaOGeO ₄ was suggested by Mill' et al. in 1991. Dielectric anomaly was confirmed by Butashin et al. in 1994. Hysteresis loop has not been observed.		91Mil 94But
b	phase	II	I
	state	(F)	P
	crystal system	orthorhombic	orthorhombic
	space group	Pna2 ₁ –C _{2v} ⁹	Pnan–D _{2h} ⁶
	Θ [K]	710(5)	91Mil
	$P_s \parallel [001]$.		94But
	$\rho_X = 5.036 \cdot 10^3 \text{ kg m}^{-3}$.		91Bel
2a	Solid-phase synthesis at 1300 K. See also		91Mil 91Bel
3a	Unit cell parameters: $a = 13.397(5) \text{ \AA}$, $b = 6.660(2) \text{ \AA}$, $c = 11.001(4) \text{ \AA}$, $V = 982.59 \text{ \AA}^3$ at RT. See also		91Bel 91Mil
5a	Dielectric constant: see Fig. 35A-15-001 in No. 35A-15.		
9e	Nonlinear optical properties: $I_{2\omega}/I_{2\omega}(\text{SiO}_2) = 20$; see also Fig. 35A-19-001 in No. 35A-19.		91Mil