No. 35A-2 $KSbOSiO_4$, Potassium antimonyl silicate
(M = 268.937)

1a	Dielectric anomaly and dispersion were found by Simon et al. in 1991.			91Sim
b	phase	II	I	
	state	(F)	P	
	crystal system	orthorhombic	orthorhombic	91Sim
	space group	$Pna2_1 - C_{2v}^9$	$Pnan - D_{2h}^6$	94Fav
	Θ [°C]	626 (single crystal) 353 (ceramic)		91Sim 93Sim
	$\rho_X = 3.997 \cdot 10^3$ kg m^{-3}.			94Fav
	Transparent and colorless.			90Cro
2a	Solid-phase synthesis at 1200...300 K.			91Bel
	Preparation of single crystals: heating a mixture of KNO_3, Sb_2O_3 and SiO_2 at 1373 K for 24 h.			90Cro
	Preparation of ceramics: starting materials are SiO_2, KNO_3, $Sb_2O_5 - nH_2O$.			91Sim
	Preparation of fine powders by a sol-gel method: see			94Kan
	Sample preparation: see also Table 35A-1-001 in No. 35A-1.			
	Crystals with tetragonal symmetry were synthesized by sol-gel method.			91Kan
	a = 7.07 Å, c = 19.18 Å.			
3a	Unit cell parameters: a = 13.036(5) Å, b = 6.488(2) Å, c = 10.626(4) Å at 293 K.			91Mil
	See also Table 35A-1-001 in No. 35A-1.			
b	Z = 8.			94Fav
	Crystal structure: Table 35A-2-001, Table 35A-2-002, Table 35A-2-003, Table 35A-2-004; Fig. 35A-2-001.			
4	a = 13.035(3) Å, b = 6.503(1) Å, c = 10.609(2) Å at 400 °C (phase I).			94Fav
5a	Dielectric constant: Fig. 35A-2-002, Fig. 35A-2-003, Fig. 35A-2-004, Fig. 35A-2-005.			
	Relaxation frequency: Fig. 35A-2-006.			
6a	Transition enthalpy: $\Delta H = 1.3 \cdot 10^3$ J kg^{-1}.			93Sim
9e	SHG: see Table 35A-1-001 in No. 35A-1 and Fig. 35A-19-001 in No. 35A-19.			
11	Luminescence of ions with d^{10} configuration.			92Ham