

No. 35A-11 KSnOPO₄, Potassium stannyl phosphate*(M* = 268.779)

1a	Dielectric anomaly was found in 1989 by Voronkova et al.		89Vor
b	phase	II	I
	state	(F)	P
	crystal system	orthorhombic	orthorhombic
	space group	Pna2 ₁ –C _{2v} ⁹	Pnan–D _{2h} ⁶
	Θ [°C]	1040...1100	
	<i>P</i> _s [001].		89Vor
	ρ _x = 2.91 · 10 ³ kg m ^{–3} .		90Tho
	Color: pale yellow.		90Phi
	See also Table 35B-5-001 in No. 35B-5.		
2a	Crystal growth: flux method. Starting materials: KH ₂ PO ₄ :K ₂ HPO ₄ :SnO ₂ = 6.8 : 6.0 : 1.8 by weight heated to 1423 K and held at this temperature for 12 h, then cooled to RT at a rate 5 K h ^{–1} .		90Tho
3a	Unit cell parameters: <i>a</i> = 13.15 Å, <i>b</i> = 6.53 Å, <i>c</i> = 10.74 Å.		89Vor
b	<i>Z</i> = 8. Crystal structure: Table 35A-11-001, Table 35A-11-002, Table 35A-11-003, Table 35A-11-004; Fig. 35A-11-001, Fig. 35A-11-002; see also Table 35A-6-007 in No. 35A-6.		90Tho
5a	Dielectric constant: Fig. 35A-11-003.		
9e	SHG intensity of the powder: a half that of quartz (≈10 ^{–4} × KTP's intensity).		90Phi
11	Electrical conductivity: Fig. 35A-11-003, Fig. 35A-11-004, Fig. 35A-11-005. Luminescence: see		92Ham, 91Bla