

36 CsCoPO₄ family

36A Pure compounds

No. 36A-1 CsCoPO₄, Cesium cobalt phosphate

($M = 286.31$)

1a	Polarization reversal by poling and dielectric anomaly associated with a phase transition in CsCoPO ₄ was reported by Blum et al. in 1984.				84Blu
b	phase	III	II	I	84Blu
	state	F	F	P	
	crystal system	monoclinic	orthorhombic	orthorhombic	
	space group	P2 ₁ -C ₂ ²			
	Θ[°C]	204	245		
	P _s [010] in phase III.				84Blu
	Dark blue color.				
2a	Crystal growth: flux method.				84Blu
3a	Unit cell parameters: <i>a</i> = 9.22 Å, <i>b</i> = 5.48 Å, <i>c</i> = 9.25 Å, β = 90.40° at RT.				84Blu
b	<i>Z</i> = 4.				84Blu
5a	Dielectric constant: Fig. 36A-1-001.				
c	Spontaneous polarization: Fig. 36A-1-002.				