

No. 33A-6 (CH₃)₂NH₂H₂PO₄, Dimethylammonium dihydrogen phosphate
 (*M* = 143.08)

1a	Ferroelectric activity in $(\text{CH}_3)_2\text{NH}_2\text{H}_2\text{PO}_4$ was discovered by Hatori et al. in 1996.		96Hat	
b	phase	II	I	96Hat
	state	F	P	
	crystal system	monoclinic	monoclinic	
	space group	$\text{Pn} - \text{C}_s^2$	$\text{P2}_1/\text{n} - \text{C}_{2\text{h}}^5$	
	θ [K]	259		
	$\rho = 1.548 \cdot 10^3 \text{ kg m}^{-3}$ at RT.			96Hat
	Transparent, colorless.			96Hat
	Cleavage plane: (110) and $(1\bar{1}0)$.			96Hat
	$P_s \parallel$ the direction inclined towards the a axis from the c axis.			96Hat
2a	Crystal growth: evaporation method from aqueous solution.			96Hat
b	Crystal form: Fig. 33A-6-001.			
3a	Unit cell parameters:			96Hat
	$a = 9.290(1) \text{ \AA}$, $b = 9.592(3) \text{ \AA}$, $c = 7.001(1) \text{ \AA}$, $\beta = 90.35(3)^\circ$ at RT.			
	$a = 9.267(4) \text{ \AA}$, $b = 9.560(1) \text{ \AA}$, $c = 6.988(2) \text{ \AA}$, $\beta = 90.42(3)^\circ$ at 193K.			
b	$Z = 4$ at RT and below θ .			96Hat
5a	Dielectric constant: Fig. 33A-6-002.			
b	Spontaneous polarization: Fig. 33A-6-003.			