

33B Solid solutions**No. 33B-1 KH₂PO₄–NH₄H₂PO₄ (KDP–ADP)**

1a	Dielectric and X-ray investigations were done by Nitta et al. in 1951.	51Nit
b	Phase diagram: Fig. 33B-1-001, Fig. 33B-1-002. See also Glass transition temperature of K _{1-x} (NH ₄) _x H ₂ PO ₄ (x = 0.23): $\Theta_g \approx 110$ K. Space group: $I\bar{4}2d - D_{2d}^{12}$ at 91.8 K and at $T > \Theta_g$. Θ vs. x: Fig. 33B-1-003. See also	85Lee 91Ono 91Ono 93Kwo
3a	Unit cell parameters: Table 33B-1-001, Table 33B-1-002, Table 33B-1-003; see also b Fractional coordinates and temperature parameters: Table 33B-1-004, Table 33B-1-005; Fig. 33B-1-004, Fig. 33B-1-005, Fig. 33B-1-006, Fig. 33B-1-007, Fig. 33B-1-008. Interatomic distances and bond angles: Table 33B-1-002, Table 33B-1-006. Order parameter for NH ₄ group: Fig. 33B-1-009.	93Kha
4a	Thermal expansion: see Table 33B-1-001, Table 33B-1-002 in 3a.	
5a	Dielectric constants: Fig. 33B-1-010, Fig. 33B-1-011, Fig. 33B-1-012, Fig. 33B-1-013, Fig. 33B-1-014, Fig. 33B-1-015, Fig. 33B-1-016, Fig. 33B-1-017, Fig. 33B-1-018, Fig. 33B-1-019, Fig. 33B-1-020. Relaxation time: Fig. 33B-1-021. c Spontaneous polarization: Fig. 33B-1-022.	
6a	Heat capacity: see	85Kwu
9a	Infrared reflectivity: Fig. 33B-1-023. b Electrooptic constant: Fig. 33B-1-024.	
10a	Raman scattering: see	87Kim, 81Cho
11	Electrical conductivity: see	86Sha
16	K _{1-x} (NH ₄) _x H ₂ PO ₄ (x = 0.07) thin film optical waveguides were grown epitaxially on KDP substrates. Etch patterns were observed with optical and scanning micrograph techniques.	72Ram 96Gup