No. M20-ii KOH, Potassium hydroxide

(M = 56.11; [D: 57.11])

1a Dielectric anomalies associated with the phase transitions at Θ_{III-II} in KOH and KOD were observed and possibility of antiferroelectricity was mentioned by Bastow et al. in 1986. 86Bas

b

phase	III	II	I [a])
state	(A)	P	
crystal system	monoclinic	monoclinic	cubic [a])
space group	$P2_1/a - C_{2h}^4$	$P2_1/m - C_{2h}^2$	$Fm3m - O_h^5$ [a])
Θ [K]	226.7 [b]) [D: 253.1] [b])		[D: 523] [a])

86Bas

[a]) 87Mac

[b]) 88Whi

$\rho_X = 2.110 \cdot 10^3$ kg m^{-3}. 85Jac

3a Unit cell parameters: a = 3.957(5) Å, b = 3.995(1) Å, c = 5.742(2) Å, β = 103.93(8)° at 294 K. 85Jac

a = 3.951 Å, b = 3.999 Å, c = 5.750 Å, β = 103.58° at 293 K. 86Bas

a = 7.892 Å, b = 3.945 Å, c = 5.947 Å, β = 65.76° at 77 K. 86Bas

See also 87Mac

b Z = 4 in phase I of KOD, 87Mac

Z = 2 in phase II, 85Jac

Z = 4 in phase III. 86Bas

Crystal structure: Table M20-ii-001, Table M20-ii-002; Fig. M20-ii-001; see also 87Mac

4 Thermal expansion: see 87Mac

5a Dielectric constant: Fig. M20-ii-002.

6a Specific heat: Fig. M20-ii-003.

Transition heat ΔQ_m and transition entropy ΔS_m at Θ_{III-II}: 88Whi

	ΔQ_m [J mol^{-1}]	ΔS_m [J K^{-1} mol^{-1}]
KOH	222(3)	1.006(17)
KOD	257(2)	1.046(6)

13a NMR of proton: see 85Amm

NMR of ^{2}H and ^{39}K: see 91Bas

Spin-lattice relaxation time: Fig. M20-ii-004.