No. 45A-15 $N_2H_5Al(SO_4)_2 \cdot 12H_2O$, Hydrozinium aluminum sulfate dodecahydrate

(M = 468.35)

1a Phase transition in $N_2H_5Al(SO_4)_2 \cdot 12H_2O$ was discovered by Pepinsky et al. 1957. 57Pep

b

phase	II [a])	I [a])
state	F [b])	P [b])
crystal system		cubic [b])
space group		Pa3– T_h^6 [b])
Θ	155 K[a]) –109.6 °C [b])	

[a]) 57Pep

[b]) 90Osa

Transparent.

2a Crystal growth: evaporation or cooling method from aqueous solution. 57Pep

3a Unit cell parameter: a = 12.36 Å in phase I. 90Osa

5a Dielectric constant: Fig. 45A-15-001, Fig. 45A-15-002, Fig. 45A-15-003, Fig. 45A-15-004, Fig. 45A-15-005, Fig. 45A-15-006.

$\kappa_{[100]} = \kappa_\infty + C/(T - \Theta_p)$, $C = 1.43 \cdot 10^3$ K, Θ_p = –187.4 °C, κ_∞ = 7.3. 90Osa

See also 94Ueh

b Spontaneous polarization: Fig. 45A-15-007.