



>>Entry Name: Losod

Extra CAS Registry Numbers(s): 1344-00-9

$\text{Na}[\text{AlSiO}_4] \cdot 1.5\text{H}_2\text{O}$

Molecular Formula: $\text{Al}_{12}\text{Na}_{12}\text{O}_{48}\text{Si}_{12}$

Molecular Weight: 1704.652

Accurate Mass: 1703.134716

Percentage Composition: Al 18.99%; Na 16.18%; O 45.05%; Si 19.77%

Each 11 hedra column is surrounded by 6 17-hedra columns

Source/Synthesis: Synth. from $[\text{N}[(\text{CH}_2)_4]_2]\text{OH}$, $\text{Al}(\text{O}^i\text{Pr})_3$, $\text{Si}(\text{OMe})_4$ and aq. MeOH at 100°

Physical Description: Platy hexagonal interpenetrating white cryst. (H_2O)

References:

Sieber, W. *et al.*, *Helv. Chim. Acta*, 1974, **57**, 1533, (*synth, props*)

Klinowski, J. *et al.*, *J. Phys. Chem.*, 1981, **85**, 2590, (*Si-29 nmr*)

Fyfe, C.A. *et al.*, *J. Phys. Chem.*, 1982, **86**, 1247, (*Al-27 nmr*)

Meier, W.H. *et al.*, *Atlas of Zeolite Structure Types*, 2nd edn., Butterworth, London, 1987, 82