



>>Entry Name: Albite

Synonym(s): Sodium aluminosilicate ($\text{Na}(\text{AlSi}_3\text{O}_8)$). Aluminium silicon sodium oxide ($\text{AlSi}_3\text{NaO}_8$)

CAS Registry Number: 12244-10-9

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

Extra CAS Registry Numbers(s): 12003-55-3

$\text{Na}[\text{AlSi}_3\text{O}_8]$

Molecular Formula: $\text{AlNaO}_8\text{Si}_3$

Molecular Weight: 262.223

Accurate Mass: 261.861407

Percentage Composition: Al 10.29%; Na 8.77%; O 48.81%; Si 32.13%

Source/Synthesis: Mineral, occur. widespread

Physical Description: White triclinic cryst. (aq. melt)

Refractive Index: n_D 1.5300

Other Data: Hardness: 6.3 Mohs

References:

- Barrer, R.M. *et al.*, *J.C.S.*, 1952, 1561, (*synth*)
Ferguson, R.B. *et al.*, *Acta Cryst.*, 1958, **11**, 331, (*cryst struct*)
Ribbe, P.H. *et al.*, *Acta Cryst. B*, 1969, **25**, 1503, (*cryst struct*)
Prewitt, C.T. *et al.*, *Am. Mineral.*, 1976, **61**, 1213, (*cryst struct*)
Winter, J.K. *et al.*, *Am. Mineral.*, 1977, **62**, 921, (*props*)
Harlow, G.E. *et al.*, *Am. Mineral.*, 1980, **65**, 986, (*cryst struct, nd*)
Lippmaa, E. *et al.*, *J.A.C.S.*, 1980, **102**, 4889; 1986, **108**, 1730, (*Si-29 nmr*)
Smith, K.A. *et al.*, *Am. Mineral.*, 1983, **68**, 1206, (*Si-29 nmr*)