



>>Entry Name: Sodium silicate (Na₂Si₃O₇)

Synonym(s): Silicon sodium oxide (Si₃Na₂O₇), 10Cl. Disodium silicate (Na₂Si₃O₇). Sodium trisilicate

CAS Registry Number: 13870-30-9

Na₂Si₃O₇

Molecular Formula: Na₂O₇Si₃

Molecular Weight: 242.232

Accurate Mass: 241.87472

Percentage Composition: Na 18.98%; O 46.23%; Si 34.78%

Source/Synthesis: Synth. by fusing quartz sand with Na₂CO₃

Use/Importance: Commercially available as hydrate

Physical Description: Cryst. or glass

Melting Point: Mp 750°

Solubility: Sol. H₂O

Fluka: 72055

References:

Schwarz, R. *et al.*, *Ber.*, 1924, **57**, 1477, (*synth*)

Budnikov, P.P. *et al.*, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, 1956, **107**, 547; *CA*, **50**, 13387g, (*synth, props*)

Jamieson, P.B., *Nature (London)*, 1967, **214**, 794, (*cryst struct*)