



>>Entry Name: Tetrasodium silicate (Na₄SiO₄)

Synonym(s): Sodium orthosilicate (Na₄SiO₄)

CAS Registry Number: 13472-30-5

Related CAS Registry Numbers(s): 1344-09-8

Na₄SiO₄

Molecular Formula: Na₄O₄Si

Molecular Weight: 184.042

Accurate Mass: 183.915655

Percentage Composition: Na 49.97%; O 34.77%; Si 15.26%

Source/Synthesis: Synth. by heating Na₂O with quartz at 800°

Physical Description: Cryst.

Melting Point: Mp 1018°

Solubility: Sol. H₂O

References:

Barker, M.G. *et al.*, *J. Chem. Res., Synop.*, 1981, 274, (*synth, cryst struct*)

Monnaye, B. *et al.*, *Rev. Chim. Miner.*, 1981, **18**, 355, (*cryst struct*)