



>>Entry Name: Tetrapropoxysilane

Synonym(s): Propyl orthosilicate. Tetrapropyl orthosilicate. Tetrapropyl silicate

CAS Registry Number: 682-01-9

$(\text{H}_3\text{CCH}_2\text{CH}_2\text{O})_4\text{Si}$

Molecular Formula: $\text{C}_{12}\text{H}_{28}\text{O}_4\text{Si}$

Molecular Weight: 264.436

Accurate Mass: 264.175687

Percentage Composition: C 54.51%; H 10.67%; O 24.20%; Si 10.62%

Use/Importance: Vulcanising agent

Boiling Point: Bp 228°. Bp₂₀ 120°

Density: d_4^{20} 0.92

Refractive Index: n_D^{18} 1.4019

References:

Reilly, A.F. *et al.*, *J.O.C.*, 1951, **16**, 387-390, (*synth*)

Mills, A.P. *et al.*, *J.A.C.S.*, 1954, **76**, 2672-2673, (*synth*)

Brune, H.A., *Tetrahedron*, 1968, **24**, 79-97, (*pmr, cmr, Si-29 mmr*)