



>>Entry Name: Decamethyltetrasiloxane, 9CI

CAS Registry Number: 141-62-8

Me3SiOSiMe2OSiMe2OSiMe3

Molecular Formula: C₁₀H₃₀O₃Si₄

Molecular Weight: 310.687

Accurate Mass: 310.127203

Percentage Composition: C 38.66%; H 9.73%; O 15.45%; Si 36.16%

Source/Synthesis: Synth. from acid catalysed equilibration of (Me₃Si)₂O

Use/Importance: Commercially available

Physical Description: Liq.

Melting Point: Mp -68°

Boiling Point: Bp 194°. Bp₆₀ 115°

Refractive Index: n_D²⁰ 1.3890

Aldrich: 23567-9

Fluka: 30537

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1102B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1650D, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 989D, (*nmr*)

Tanny, G.B. *et al.*, *J. Phys. Chem.*, 1971, **75**, 2430, (*ms*)

Levy, G.C. *et al.*, *J.A.C.S.*, 1973, **95**, 3445, (*synth, Si-29 nmr*)

Kirichenko, E.A. *et al.*, *Zh. Obshch. Khim.*, 1980, **50**, 1576, (*uv*)

Helmer, B.J. *et al.*, *Organometallics*, 1982, **1**, 877, (*Si-29 nmr*)

Ruehlmann, K. *et al.*, *J. Organomet. Chem.*, 1988, **340**, 19; 1989, **375**, 33, (*O-17 nmr*)

Merck Index, 11th edn., 1989, No. 2843