



>>Entry Name: 1,3-Bis(4-hydroxybutyl)-1,1,3,3-tetramethyldisiloxane

Synonym(s): 4,4'-(1,1,3,3-Tetramethyl-1,3-disiloxanediyl)bis[1-butanol], 9Cl. 5,5,7,7-Tetramethyl-6-oxa-5,7-disilaundecane-1,11-diol

CAS Registry Number: 5931-17-9

HO(CH₂)₄SiMe₂OSiMe₂(CH₂)₄OH

Molecular Formula: C₁₂H₃₀O₃Si₂

Molecular Weight: 278.538

Accurate Mass: 278.173349

Percentage Composition: C 51.75%; H 10.86%; O 17.23%; Si 20.17%

Source/Synthesis: Synth. by methanolysis of [Me₃SiO(CH₂)₄SiMe₂]₂O, or by hydrol. of 2,2-dimethyl-1-oxa-2-silacyclohexane

Physical Description: Liq.

Boiling Point: Bp_{0.1} 125-126°

Refractive Index: n_D²⁰ 1.4498

Other Data: After storage at r.t. for several days, contains approx. 20 mol. % of 2,2-dimethyl-1-oxa-2-silacyclohexane

References:

Knoth, W.H. *et al.*, *J.A.C.S.*, 1958, **80**, 4106-4108, (*synth*)

Braun, F. *et al.*, *J. Organomet. Chem.*, 1987, **332**, 63-68, (*synth, ir, cmr, Si-29 nmr*)