



>>Entry Name: Methylphenylsilanediol, 9CI

Synonym(s): Dihydroxymethylphenylsilane

CAS Registry Number: 3959-13-5

PhSiMe(OH)₂

Molecular Formula: C₇H₁₀O₂Si

Molecular Weight: 154.24

Accurate Mass: 154.045007

Percentage Composition: C 54.51%; H 6.53%; O 20.75%; Si 18.21%

Source/Synthesis: Synth. from PhMeSiCl₂ + H₂O

Physical Description: White cryst. (CCl₄ or toluene)

Melting Point: Mp 74.5-75.5°

>>Derivative: Di-Me ether

>>Derivative: Di-Et ether

Synonym(s): Diethoxymethylphenylsilane

CAS Registry Number: 775-56-4

Molecular Formula: C₁₁H₁₈O₂Si

Molecular Weight: 210.348

Accurate Mass: 210.107607

Percentage Composition: C 62.81%; H 8.62%; O 15.21%; Si 13.35%

Physical Description: Moisture-sensitive liq.

Boiling Point: Bp 218°. Bp₂₅ 100°

Density: d₄²⁰ 0.96

Refractive Index: n_D²⁰ 1.4678

References:

Sauer, R.O. *et al.*, *J.A.C.S.*, 1948, **70**, 3590-3596, (*synth, derivs*)

Chappelow, C.C. *et al.*, *J. Chem. Eng. Data*, 1963, **8**, 82-86, (*di-Et ether*)

Harris, G.I., *J.C.S.(B)*, 1971, 2083, (*ir*)

Nguyen-Duc-Chuy *et al.*, *Coll. Czech. Chem. Comm.*, 1975, **40**, 875-896, (*pmr, cmr, Si-29 nmr*)

Pittman, C.U.J., *J. Polym. Sci.*, 1975, **13**, 39, (*ir, pmr, synth*)

Liepinsh, F.E. *et al.*, *Zh. Obshch. Khim.*, 1983, **53**, 1076-1082; *J. Gen. Chem. USSR (Engl. Transl.)*, 1983, **53**, 952-958, (*cmr, Si-29 nmr, N-15 nmr*)

Cragg, R.M. *et al.*, *J. Organomet. Chem.*, 1984, **277**, 199-201, (*Si-29 nmr*)