



>>Entry Name: 3-(Dichloromethylsilyl)-1-propanol

CAS Registry Number: 35153-79-8

Cl2MeSiCH2CH2CH2OH

Molecular Formula: C4H10Cl2OSi

Molecular Weight: 173.113

Accurate Mass: 171.987796

Percentage Composition: C 27.75%; H 5.82%; Cl 40.96%; O 9.24%; Si 16.22%

>>Derivative: Ac

CAS Registry Number: 5290-24-4

Molecular Formula: C6H12Cl2O2Si

Molecular Weight: 215.151

Accurate Mass: 213.998361

Percentage Composition: C 33.50%; H 5.62%; Cl 32.96%; O 14.87%; Si 13.05%

Source/Synthesis: Synth. by Pt-catalysed addn. of H2C=CHCH2OAc and MeSiHCl2

Boiling Point: Bp₇₃ 142°

Density: d²⁵ 1.15

Refractive Index: n_D²⁵ 1.4434

>>Derivative: 2-Propenoyl

Synonym(s): 3-(Dichloromethylsilyl)propyl acrylate

CAS Registry Number: 71550-63-5

Molecular Formula: C7H12Cl2O2Si

Molecular Weight: 227.162

Accurate Mass: 225.998361

Percentage Composition: C 37.01%; H 5.32%; Cl 31.21%; O 14.09%; Si 12.36%

Source/Synthesis: Synth. from H2C=CHCOOCH2CH=CH2 + MeSiHCl2 + H2PtCl6

>>Derivative: 2-Methyl-2-propenoyl

Synonym(s): 3-(Dichloromethylsilyl)propyl methacrylate

CAS Registry Number: 18301-56-9

Molecular Formula: C8H14Cl2O2Si

Molecular Weight: 241.188

Accurate Mass: 240.014011

Percentage Composition: C 39.84%; H 5.85%; Cl 29.40%; O 13.27%; Si 11.64%

Source/Synthesis: Synth. from H2C=C(Me)COOCH2CH=CH2 + Me3SiHCl2 + H2PtCl6

Boiling Point: Bp₂ 75°

Density: d²⁵ 1.11

Refractive Index: n_D²⁵ 1.4552

References:

Speier, J.L. *et al.*, *J.A.C.S.*, 1957, **79**, 974-979, (*Ac, synth*)

U.S. Pat., 1958, 2, 823 218; *CA*, **53**, 16965g, (*methacrylate*)

Massol, M. *et al.*, *J. Organomet. Chem.*, 1974, **80**, 47-69, (*Ac, synth, pmr*)

Schraml, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1978, **43**, 3202-3209, (*Ac, cmr, Si-29 nmr*)

Efinov, Yu. T. *et al.*, *Zh. Obshch. Khim.*, 1991, **61**, 2244-2253; *CA*, **116**, 174234h, (*acrylate, methacrylate*)