



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

CAS Registry Number: 35153-79-8

$\text{Cl}_2\text{MeSiCH}_2\text{CH}_2\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_4\text{H}_{10}\text{Cl}_2\text{OSi}$

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: $\text{C}_6\text{H}_{12}\text{Cl}_2\text{O}_2\text{Si}$

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 $\text{H}_2\text{C}=\text{CHCH}_2\text{OAc}$ and MeSiHCl_2

Boiling Point: Bp_{73} 142°

Density: d^{25} 1.15

Refractive Index: n_D^{25} 1.4434

>>Derivative: 2-Propenoyl

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

CAS Registry Number: 71550-63-5

Molecular Formula: $\text{C}_7\text{H}_{12}\text{Cl}_2\text{O}_2\text{Si}$

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 $\text{H}_2\text{C}=\text{CHCOOCH}_2\text{CH}=\text{CH}_2 + \text{MeSiHCl}_2 + \text{H}_2\text{PtCl}_6$

>>Derivative: 2-Methyl-2-propenoyl

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

CAS Registry Number: 18301-56-9

Molecular Formula: $\text{C}_8\text{H}_{14}\text{Cl}_2\text{O}_2\text{Si}$

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 $\text{H}_2\text{C}=\text{C}(\text{Me})\text{COOCH}_2\text{CH}=\text{CH}_2 + \text{Me}_3\text{SiHCl}_2 + \text{H}_2\text{PtCl}_6$

Boiling Point: Bp_2 75°

Density: d^{25} 1.11

Refractive Index: n_D^{25} 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*)