



>>Entry Name: (Chloromethyl)isopropoxydimethylsilane

Synonym(s): (Chloromethyl)dimethyl(1-methylethoxy)silane, gCl. (Isopropoxydimethylsilyl)methyl chloride

CAS Registry Number: 18171-11-4

$\text{ClCH}_2\text{SiMe}_2(\text{OCHMe}_2)$

Molecular Formula: $\text{C}_6\text{H}_{15}\text{ClOSi}$

Molecular Weight: 166.722

Accurate Mass: 166.058069

Percentage Composition: C 43.23%; H 9.07%; Cl 21.26%; O 9.60%; Si 16.85%

Source/Synthesis: Synth. from $\text{ClCH}_2\text{SiMe}_2\text{Cl} + \text{Pr}^i\text{OH} + \text{Et}_3\text{N}$

Use/Importance: The derived Grignard reagent is used for hydroxymethylation of carbon compds.

Physical Description: Air-stable colourless liq.

Boiling Point: Bp 176°. Bp₅₀ 65-67°

Aldrich: 29203-6

Fluka: 25118

References:

Andrianov, K.A. *et al.*, *Dokl. Akad. Nauk SSSR*, 1957, **112**, 257; *CA*, **51**, 11987h, (*synth*)

Org. Synth., 1990, **69**, 96, (*synth, use*)