



>>Entry Name: Di-*tert*-butyldichlorosilane

Synonym(s): Dichlorobis(1,1-dimethylethyl)silane, 10Cl, 9Cl

CAS Registry Number: 18395-90-9

$(\text{Me}_3\text{C})_2\text{SiCl}_2$

Molecular Formula: $\text{C}_8\text{H}_{18}\text{Cl}_2\text{Si}$

Molecular Weight: 213.221

Accurate Mass: 212.055481

Percentage Composition: C 45.06%; H 8.51%; Cl 33.25%; Si 13.17%

Source/Synthesis: Synth. from Bu^tLi and Bu^tSiCl_3

Use/Importance: Comly. available. Used in protection of diols

Physical Description: Colourless liq.

Boiling Point: Bp 196°. Bp_{0.01} 44-48°

Density: d_4^{20} 1.008

Refractive Index: n_D^{20} 1.4570

Hazard & Toxicity: Lachrymator

Aldrich: 28766-0

Fluka: 34680

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 648C, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1635C, (*ir*)

Weidenbruch, M. *et al.*, *Angew. Chem., Int. Ed.*, 1975, **14**, 642, (*synth*)

Doyle, M.P. *et al.*, *J.A.C.S.*, 1975, **97**, 3777, (*synth, pmr, ir, ms*)

Triplett, K. *et al.*, *J. Organomet. Chem.*, 1976, **107**, 23; 87; 670, (*synth, reactions*)

Watanabe, H. *et al.*, *Chem. Lett.*, 1981, 1321, (*synth, bibl*)

Corey, E.J. *et al.*, *Tet. Lett.*, 1982, **23**, 4871, (*use*)

Trost, B.M. *et al.*, *J.O.C.*, 1983, **48**, 3252, (*use*)

Forsyth, G.A. *et al.*, *J. Mol. Struct.*, 1990, **222**, 467, (*gas-phase struct*)