



>>Entry Name: (Iodomethyl)trimethylsilane, 9Cl, 8Cl

Synonym(s): (Trimethylsilyl)methyl iodide. Siliconeopentyl iodide

CAS Registry Number: 4206-67-1

ICH₂SiMe₃

Molecular Formula: C₄H₁₁ISi

Molecular Weight: 214.121

Accurate Mass: 213.967475

Percentage Composition: C 22.44%; H 5.18%; I 59.27%; Si 13.12%

Source/Synthesis: Synth. from Me₃SiCH₂Cl + NaI

Use/Importance: Reagent for highly stereoselective synth. of di/tri-subst. alkenes via Peterson olefination

Physical Description: Stable colourless liq.; stable in the dark

Boiling Point: Bp 137-138°. Bp₇₁ 69-70°

Density: d²⁰ 1.443

Refractive Index: n_D²⁰ 1.4898 n_D²⁰ 1.4917

Aldrich: 22030-2

Fluka: 57903

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1100C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1628A, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 985A, (*nmr*)

Whitmore, F.C. *et al.*, *J.A.C.S.*, 1946, **68**, 481; 484, (*synth*)

Seyferth, D. *et al.*, *J.O.C.*, 1977, **42**, 3104, (*use*)

Pola, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1978, **43**, 3192, (*synth, props, pmr*)

Cunico, R.F. *et al.*, *Organometallics*, 1982, **1**, 1, (*synth*)

Jong, G.L. *et al.*, *Synthesis*, 1988, 318, (*synth, props, pmr*)

Barrett, A.G.M. *et al.*, *Synlett*, 1991, 764, (*use*)