



>>Entry Name: Trichloro(chloromethyl)silane, 9Cl

Synonym(s): (Chloromethyl)trichlorosilane

CAS Registry Number: 1558-25-4

$\text{Cl}_3\text{SiCH}_2\text{Cl}$

Molecular Formula: $\text{CH}_2\text{Cl}_4\text{Si}$

Molecular Weight: 183.923

Accurate Mass: 181.867985

Percentage Composition: C 6.53%; H 1.10%; Cl 77.10%; Si 15.27%

Source/Synthesis: Synth. by vapour-phase chlorination of MeSiCl_3 under uv light

Use/Importance: Comly. available

Physical Description: Liq.

Melting Point: Mp 111-112°

Density: d_4^{20} 1.465148

Refractive Index: n_D^{20} 1.4540

Other Data: Grignard coupling followed by LiAlH_4 redn. gives a highly branched hydridopolycarbosilane

Aldrich: 25443-6

Fluka: 25295

Rare Chemicals Library: S58490-8

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **3**, 652C, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1105D, (ir)

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Pola, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1973, **38**, 1522, (synth)

Schraml, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1974, **39**, 267, (cmr, F-19 nmr, Si-29 nmr)

Lippmaa, E. *et al.*, *Coll. Czech. Chem. Comm.*, 1974, **39**, 1041, (Si-29 nmr)

Irwin, R.M. *et al.*, *J.A.C.S.*, 1977, **99**, 3273, (synth, pmr)

Vajda, E. *et al.*, *J. Organomet. Chem.*, 1980, **188**, 321, (ir)

Wojnowski, W. *et al.*, *Przem. Chem.*, 1989, **68**, 409; *CA*, **112**, 179103s, (synth)

Whitmarsh, C.K. *et al.*, *Organometallics*, 1991, **10**, 1336, (polym)

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