



>>Entry Name: [2-(Chloromethoxy)ethyl]trimethylsilane, 11Cl

Synonym(s): [2-(Trimethylsilyl)ethoxy]methyl chloride. Chloromethyl 2-trimethylsilylethyl ether

CAS Registry Number: 76513-69-4



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 $\text{Me}_3\text{SiCH}_2\text{CH}_2\text{OH} + (\text{CH}_2\text{O})_n + \text{HCl}$

Use/Importance: Reagent for protection of pyrroles, indoles and hydroxyl groups

Physical Description: Colourless liq.

Boiling Point: Bp₈ 57-59°

Density: d_4^{25} 1.05

Aldrich: 23890-2

Fluka: 92749

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 657A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1097A, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1640C, (ir)

Lipshutz, B.H. *et al.*, *Tet. Lett.*, 1980, **21**, 3343, (synth, use, protection of alcohols)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1982, **10**, 431, (synth, use)

Pyne, S.G. *et al.*, *J.A.C.S.*, 1982, **104**, 5719, (synth, pmr)

Muchowski, J.M. *et al.*, *J.O.C.*, 1984, **49**, 203, (use)

Hasseberg, H.-A. *et al.*, *Helv. Chim. Acta*, 1988, **71**, 957, (use, protection of alcohols)