



>>Entry Name: (Ethylthio)trimethylsilane, 9CI

Synonym(s): Ethyl trimethylsilyl sulfide

CAS Registry Number: 5573-62-6

Me₃SiSEt

Molecular Formula: C₅H₁₄SSi

Molecular Weight: 134.317

Accurate Mass: 134.058547

Percentage Composition: C 44.71%; H 10.51%; S 23.87%; Si 20.91%

Source/Synthesis: Synth. from Me₃SiCl + EtSH

Use/Importance: Selective carbonyl protection reagent; converts ketones to thioacetals in presence of Me₃SiOTf

Physical Description: Liq.

Boiling Point: Bp 130°

Density: d₄²⁰ 0.83

Refractive Index: n_D²⁰ 1.4512

Aldrich: 37603-5

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 675C, (nmr)

Abel, E.W., *J.C.S.*, 1960, 4406, (ir, synth)

Evans, D.A. *et al.*, *J.A.C.S.*, 1977, **99**, 5009, (use)

Kuwajima, I. *et al.*, *Bull. Chem. Soc. Jpn.*, 1978, **51**, 2183, (synth)

Voronkov, M.G. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1979, **7**, 1600; *CA*, **91**, 174617, (ir, uv)

Veszpremi, T. *et al.*, *J. Organomet. Chem.*, 1980, **184**, 147, (uv)

Noyori, R. *et al.*, *Tetrahedron*, 1981, **37**, 3899, (use, reaction with ketones)