



>>Entry Name: Trimethyl-1-propynylsilane, 9CI

ENTRY UNDER REVIEW

Synonym(s): Methyl(trimethylsilyl)acetylene. 1-(Trimethylsilyl)propyne

CAS Registry Number: 6224-91-5

$\text{Me}_3\text{SiC}\equiv\text{CMe}$

Molecular Formula: $\text{C}_6\text{H}_{12}\text{Si}$

Molecular Weight: 112.246

Accurate Mass: 112.070827

Percentage Composition: C 64.20%; H 10.78%; Si 25.02%

Source/Synthesis: Synth. from $\text{MeC}\equiv\text{CLi}$ + Me_3SiCl

Use/Importance: Precursor to *cis*-vinylsilenes (via hydroboration)

Physical Description: Liq.

Boiling Point: Bp_{130} 48-49°

Refractive Index: n_D^{20} 1.4210

Aldrich: 24448-1

Fluka: 92767

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **3**, 717A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 951A, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1672B, (*ir*)

Steingross, W. *et al.*, *J. Organomet. Chem.*, 1966, **6**, 464, (*ir, Raman*)

West, R. *et al.*, *J.A.C.S.*, 1969, **91**, 6156, (*synth*)

Jaffe, F., *J. Organomet. Chem.*, 1970, **23**, 53, (*synth*)

Bourgeois, P. *et al.*, *J. Organomet. Chem.*, 1972, **39**, C44, (*ir, pmr*)

Kataoka, Y. *et al.*, *Tet. Lett.*, 1990, **31**, 365, (*use*)

Soderquist, J.A. *et al.*, *Tet. Lett.*, 1990, **31**, 5113; 1991, **32**, 43, (*use*)

Ishibashi, H. *et al.*, *Chem. Pharm. Bull.*, 1991, **39**, 1148, (*use*)