



>>Entry Name: 3-(Trimethylsilyl)-2-propyn-1-ol, 9CI

Synonym(s): (3-Hydroxy-1-propynyl)trimethylsilane

CAS Registry Number: 5272-36-6

$\text{Me}_3\text{SiC}\equiv\text{CCH}_2\text{OH}$

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

Molecular Weight: 128.246

Accurate Mass: 128.065742

Percentage Composition: C 56.19%; H 9.43%; O 12.48%; Si 21.90%

Source/Synthesis: Synth. from $\text{Me}_3\text{SiC}\equiv\text{CMgBr}$ + CH_2O

Use/Importance: Readily hydrometallated by $\text{Bu}^i\text{MgCl/Cp}_2\text{TiCl}_2$

Physical Description: Liq.

Boiling Point: Bp_{12} 77.5-78°

Aldrich: 31855-8

Fluka: 92736

References:

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1673A, (ir)

Shostakovskii, M.F. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1966, 101; *CA*, **64**, 12712, (synth)

Miller, R., *Synth. Commun.*, 1972, **2**, 267, (synth)

Ahmed, M. *et al.*, *J.C.S. Perkin 1*, 1974, 1981, (ir, ms, pmr, synth)

Kovalev, I.F. *et al.*, *CA*, 1977, **87**, 151250, (ir, Raman)

Sato, F. *et al.*, *Chem. Comm.*, 1984, 1126, (use, hydrometallation)