



>>Entry Name: 2-(Trimethylsilyl)ethanol

Synonym(s): (2-Hydroxyethyl)trimethylsilane

CAS Registry Number: 2916-68-9

$\text{Me}_3\text{SiCH}_2\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_5\text{H}_{14}\text{OSi}$

Molecular Weight: 118.25

Accurate Mass: 118.081392

Percentage Composition: C 50.79%; H 11.93%; O 13.53%; Si 23.75%

Source/Synthesis: Synth. from $\text{Me}_3\text{SiCH}_2\text{CH}_2\text{OAc}$ + LiAlH_4

Use/Importance: Commercially available reagent for protection of NH_2 and carboxyl groups

Physical Description: Liq.

Boiling Point: Bp_{20} 83-84°

Density: d_4^{25} 0.8254

Refractive Index: n_D^{25} 1.4220

Aldrich: 22689-0

Fluka: 92747

Sigma: T4391

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1108D, (*ir*)

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **3**, 654A, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1638B, (*ir*)

Speier, J.L. *et al.*, *J.A.C.S.*, 1957, **79**, 974-979, (*synth, props*)

Sieber, P., *Helv. Chim. Acta*, 1977, **60**, 2711-2716, (*use, carboxyl protection*)

Gerlach, H. *et al.*, *Helv. Chim. Acta*, 1977, **60**, 3039-3044, (*pmr, synth, use*)

Carpino, L.A. *et al.*, *Chem. Comm.*, 1978, 358-359, (*use*)

Soderquist, J.A., *J. Organomet. Chem.*, 1978, **156**, C12-C16, (*synth*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1980, **8**, 510, (*use*)