



>>Entry Name: 2-[(Trimethylsilyl)oxy]ethanol, 9CI

Synonym(s): (2-Hydroxyethoxy)trimethylsilane

CAS Registry Number: 4403-13-8

Me₃SiOCH₂CH₂OH

Molecular Formula: C₅H₁₄O₂Si

Molecular Weight: 134.25

Accurate Mass: 134.076307

Percentage Composition: C 44.73%; H 10.51%; O 23.84%; Si 20.92%

Source/Synthesis: Synth. from HOCH₂CH₂OH + Me₃SiCl or (Me₃Si)₂NH

Physical Description: Liq.

Boiling Point: Bp 151-152°

Density: d²⁰ 0.9

Refractive Index: n_D²⁰ 1.4117

>>Derivative: 2-Methyl-2-propenoyl

Synonym(s): 2-(Trimethylsiloxy)ethyl methacrylate

CAS Registry Number: 17407-09-9

Molecular Formula: C₉H₁₈O₃Si

Molecular Weight: 202.325

Accurate Mass: 202.102522

Percentage Composition: C 53.43%; H 8.97%; O 23.72%; Si 13.88%

Source/Synthesis: Synth. from H₂C=CM₂COOCH₂CH₂OH + Me₃SiCl + Et₃N

Density: d²⁰ 0.99

Refractive Index: n_D²⁰ 1.4300

Other Data: Undergoes anionic polym.

References:

Sprung, M.M. *et al.*, *J.O.C.*, 1955, **20**, 1750-1756, (*synth*)

Antipina, G.N. *et al.*, *Plast. Massy*, 1968, 28-29; *CA*, **69**, 19644j, (*methacrylate, synth*)

Kanjolia, R.K. *et al.*, *Z. Naturforsch., B*, 1980, **35**, 767-770, (*synth*)

Hirao, A. *et al.*, *Macromolecules*, 1986, **19**, 1294-1299, (*synth, polym*)