



>>Entry Name: Triethylsilanol, 9CI

Synonym(s): Hydroxytriethylsilane

CAS Registry Number: 597-52-4

Et₃SiOH

Molecular Formula: C₆H₁₆OSi

Molecular Weight: 132.277

Accurate Mass: 132.097042

Percentage Composition: C 54.48%; H 12.19%; O 12.10%; Si 21.23%

Source/Synthesis: Synth. from Et₃SiCl + H₂O

Physical Description: Liq.

Boiling Point: Bp 154°. Bp₁₈ 70.5°

Density: d₄²⁰ 0.865

Refractive Index: n_D²⁰ 1.4329

Aldrich: 38042-3

Fluka: 90560

>>Derivative: Ac

Synonym(s): Acetoxytriethylsilane

CAS Registry Number: 5290-29-9

Molecular Formula: C₈H₁₈O₂Si

Molecular Weight: 174.314

Accurate Mass: 174.107607

Percentage Composition: C 55.12%; H 10.41%; O 18.36%; Si 16.11%

Physical Description: Liq.

Boiling Point: Bp 173-174°

>>Derivative: Benzoyl

CAS Registry Number: 1018-20-8

Molecular Formula: C₁₃H₂₀O₂Si

Molecular Weight: 236.385

Accurate Mass: 236.123257

Percentage Composition: C 66.05%; H 8.53%; O 13.54%; Si 11.88%

Physical Description: Liq.

Boiling Point: Bp₈ 133°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 655C, (*nmr*)

Sommer, L.H. *et al.*, *J.A.C.S.*, 1946, **68**, 2282, (*synth*)

Eaborn, C., *J.C.S.*, 1950, 3077, (*synth*)

Licht, K. *et al.*, *Z. Anorg. Allg. Chem.*, 1963, **323**, 190, (*ir, Raman*)

Barnes, G.H. *et al.*, *J.O.C.*, 1966, **31**, 885, (*synth*)

Kriegsmann, H. *et al.*, *Z. Phys. Chem. (Leipzig)*, 1969, **240**, 294, (*ir, pmr*)

Ho, R.Y.K. *et al.*, *Org. Mass Spectrom.*, 1979, **14**, 185, (*ms*)