



>>Entry Name: (Trimethylsilyl)methanol, 9CI

Synonym(s): (Hydroxymethyl)trimethylsilane

CAS Registry Number: 3219-63-4

Me₃SiCH₂OH

Molecular Formula: C₄H₁₂OSi

Molecular Weight: 104.224

Accurate Mass: 104.065742

Percentage Composition: C 46.10%; H 11.60%; O 15.35%; Si 26.95%

Source/Synthesis: Synth. from Me₃SiCH₂MgCl + BF₃·Et₂O, then NaOH

Physical Description: Liq.

Boiling Point: Bp 121.7-121.9°

Density: d₄²⁵ 0.826

Refractive Index: n_D²⁵ 1.4169

Aldrich: 30529-4

Fluka: 92766

>>Derivative: Ac

Synonym(s): (Acetoxymethyl)trimethylsilane

CAS Registry Number: 2917-65-9

Molecular Formula: C₆H₁₄O₂Si

Molecular Weight: 146.261

Accurate Mass: 146.076307

Percentage Composition: C 49.27%; H 9.65%; O 21.88%; Si 19.20%

Source/Synthesis: Synth. from Me₃SiCH₂Cl + KOAc + HOAc

Physical Description: Liq.

Boiling Point: Bp 136.8°

Density: d₄²⁵ 0.867

Aldrich: 23512-1

Fluka: 46055

>>Derivative: 3,5-Dinitrobenzoyl

Source/Synthesis: Synth. from parent alcohol and 3,5-dinitrobenzoyl chloride

Physical Description: Cryst. (EtOH)

Melting Point: Mp 72-72.5°

>>Derivative: 2-Methyl-2-propenoyl

Synonym(s): (Trimethylsilyl)methyl methacrylate

CAS Registry Number: 18269-97-1

Molecular Formula: C₈H₁₆O₂Si

Molecular Weight: 172.299

Accurate Mass: 172.091957

Percentage Composition: C 55.77%; H 9.36%; O 18.57%; Si 16.30%

Source/Synthesis: Synth. from H₂C=CM₂COOH + ClCH₂SiMe₃

Boiling Point: Bp₇₅ 98°

Density: d²⁵ 0.883

Refractive Index: n_D²⁵ 1.4282

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