



>>Entry Name: Triisopropylsilanethiol

Synonym(s): Tris(1-methylethyl)silanethiol, 13Cl

CAS Registry Number: 156275-96-6

$(\text{Me}_2\text{CH})_3\text{SiSH}$

Molecular Formula: $\text{C}_9\text{H}_{22}\text{SSi}$

Molecular Weight: 190.424

Accurate Mass: 190.121147

Percentage Composition: C 56.77%; H 11.64%; S 16.84%; Si 14.75%

Source/Synthesis: Synth. from H_2S + Chlorotriisopropylsilane [FJL73-M](#)

Use/Importance: Reagent for synth. of thiols, unsymmetric sulfides, thioacetals and vinyl and aryl sulfides

Physical Description: Liq.

Boiling Point: $\text{Bp}_{2.1}$ 70-75°

Aldrich: 42993-7

>>Derivative: K salt

CAS Registry Number: 156098-11-2

Molecular Formula: $\text{C}_9\text{H}_{21}\text{KSSi}$

Molecular Weight: 228.515

Accurate Mass: 228.077029

Percentage Composition: C 47.31%; H 9.26%; K 17.11%; S 14.03%; Si 12.29%

Physical Description: Cryst. (toluene)

Melting Point: Mp 250 dec.°

References:

Miranda, E.I. *et al.*, *Tet. Lett.*, 1994, **35**, 3221; 3225, (*synth, ir, pmr, cmr, use*)