



>>Entry Name: **3-(Dimethoxymethylsilyl)-1-propanethiol**, 9CI, 8CI

Synonym(s): 3-Mercaptopropyldimethoxysilane. KBM 802™

CAS Registry Number: 31001-77-1

(MeO)₂SiMeCH₂CH₂CH₂SH

Molecular Formula: C₆H₁₆O₂SSi

Molecular Weight: 180.343

Accurate Mass: 180.064027

Percentage Composition: C 39.96%; H 8.94%; O 17.74%; S 17.78%; Si 15.57%

Use/Importance: Reinforcement filler for elastomers; chain-transfer agent in polym. of acrylic compds.; also used as a catalyst in manuf. of polydienes and other industrial applications

Physical Description: Moisture-sensitive liq.

Boiling Point: Bp₃₀ 96°. Bp₄ 72-74°

Density: d₄²⁰ 0.996

Refractive Index: n_D²⁵ 1.4478

Hazard & Toxicity: Fl. p. 92°

References:

Ger. Pat., 1971, 2 035 619; *CA*, **74**, 142812t, (*synth, use*)

Ger. Pat., 1976, 2 543 639; *CA*, **85**, 123331w, (*synth*)

Bittell, J.E. *et al.*, *J.O.C.*, 1978, **43**, 1687-1689, (*synth, props, ms, pmr*)