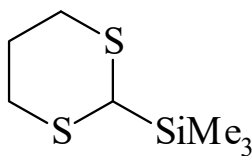




>>Entry Name: 2-Trimethylsilyl-1,3-dithiane

Synonym(s): (1,3-Dithian-2-yl)trimethylsilane, 9CI



CAS Registry Number: 13411-42-2

Molecular Formula: C₇H₁₆S₂Si

Molecular Weight: 192.421

Accurate Mass: 192.046267

Percentage Composition: C 43.69%; H 8.38%; S 33.33%; Si 14.60%

Source/Synthesis: Synth. from lithiodithiane + Me₃SiCl

Use/Importance: Commercially available synthetic reagent; reacts with carboxylic acid derivs.

Physical Description: Liq.

Boiling Point: Bp₈ 100°. Bp_{0.17} 54.5°

Refractive Index: n_D²⁰ 1.5331

Other Data: λ_{max} 244 (ε 711) and 277sh nm (800)

Aldrich: 22081-7

Fluka: 92744

>>Derivative: S-Oxide (*trans*-)

CAS Registry Number: 60349-82-8

Molecular Formula: C₇H₁₆OS₂Si

Molecular Weight: 208.42

Accurate Mass: 208.041182

Percentage Composition: C 40.34%; H 7.74%; O 7.68%; S 30.77%; Si 13.48%

Physical Description: Light yellow oil

Other Data: *O trans* to SiMe₃

References:

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Corey, E.J. *et al.*, *J.A.C.S.*, 1967, **89**, 434, (*synth, ir, uv, pmr*)

Seebach, D. *et al.*, *Angew. Chem., Int. Ed.*, 1973, **12**, 69, (*use*)

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