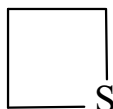




>>Entry Name: Thietane, 9CI

Synonym(s): Trimethylene sulfide, 8CI. Thiacyclobutane



CAS Registry Number: 287-27-4

Molecular Formula: C₃H₆S

Molecular Weight: 74.146

Accurate Mass: 74.01902

Percentage Composition: C 48.60%; H 8.16%; S 43.25%

Physical Description: Liq. with disagreeable odour

Melting Point: Fp -73.25°

Boiling Point: Bp₇₅₂ 93.8-94.2°

Density: d₄²⁰ 1.0228

Refractive Index: n_D²⁰ 1.5096

Aldrich: 18894-8

Fluka: 92458

>>Derivative: Methiodide (1:2)

Physical Description: Needles

Melting Point: Mp 98.5-99.5°

>>Derivative: S-Oxide

Synonym(s): Thietane sulfoxide. Trimethylene sulfoxide

CAS Registry Number: 13153-11-2

Molecular Formula: C₃H₆OS

Molecular Weight: 90.146

Accurate Mass: 90.013935

Percentage Composition: C 39.97%; H 6.71%; O 17.75%; S 35.57%

Physical Description: Liq.

Boiling Point: Bp₁₄ 91-92°. Bp_{0.36} 43-44°

>>Derivative: S,S-Dioxide

Synonym(s): Thietane sulfone. Trimethylene sulfone

CAS Registry Number: 5687-92-3

Molecular Formula: C₃H₆O₂S

Molecular Weight: 106.145

Accurate Mass: 106.00885

Percentage Composition: C 33.95%; H 5.70%; O 30.15%; S 30.21%

Physical Description: Needles (H₂O, MeOH/Et₂O or Et₂O/petrol)

Melting Point: Mp 75.5-76°

Solubility: Sol. H₂O, EtOH; spar. sol. Et₂O

Rare Chemicals Library: S62073-4

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