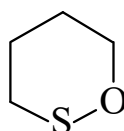




>>Entry Name: 1,2-Oxathiane



Molecular Formula: C₄H₈OS

Molecular Weight: 104.173

Accurate Mass: 104.029585

Percentage Composition: C 46.12%; H 7.74%; O 15.36%; S 30.78%

>>Derivative: S-Oxide

CAS Registry Number: 24308-29-0

Molecular Formula: C₄H₈O₂S

Molecular Weight: 120.172

Accurate Mass: 120.0245

Percentage Composition: C 39.98%; H 6.71%; O 26.63%; S 26.68%

Physical Description: Liq.

Boiling Point: Bp_{0.2} 58-64°

>>Derivative: S,S-Dioxide

Synonym(s): 1,2-Oxathiane 2,2-dioxide, 9Cl, 8Cl. 1,4-Butane sultone. 4-Hydroxy-1-butanefulfonic acid δ-sultone. δ-Valerosultone

CAS Registry Number: 1633-83-6

Molecular Formula: C₄H₈O₃S

Molecular Weight: 136.171

Accurate Mass: 136.019415

Percentage Composition: C 35.28%; H 5.92%; O 35.25%; S 23.55%

Use/Importance: Alkylating agent

Physical Description: Liq.

Melting Point: Mp 12.5-14.5°

Boiling Point: Bp₄ 134-136°

Density: d₄²⁵ 1.33

Hazard & Toxicity: LD₅₀ (rat, orl) 500 mg/kg. Exp. reprod. effects

Aldrich: B8550-1

Fluka: 19030

References:

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