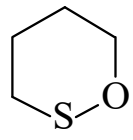
>>**Entry Name: 1,2-Oxathiane**



Molecular Formula: C_4H_8OS
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: $C_4H_8O_2S$
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-butanesulfonic acid δ-sultone. δ-Valerosultone

CAS Registry Number: 1633-83-6
Molecular Formula: $C_4H_8O_3S$
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: Bp_4 134-136°
Density: d_4^{20}1.33
Hazard & Toxicity: LD_{50} (rat, orl) 500 mg/kg. Exp. reprod. effects

Aldrich: B8550-1
Fluka: 19030

References:

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