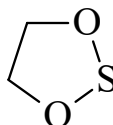




>>Entry Name: 1,3,2-Dioxathiolane, 9CI



CAS Registry Number: 4745-43-1

Molecular Formula: C₂H₄O₂S

Molecular Weight: 92.118

Accurate Mass: 91.9932

Percentage Composition: C 26.08%; H 4.38%; O 34.74%; S 34.81%

>>Derivative: S-Oxide

Synonym(s): 1,3,2-Dioxathiolane 2-oxide, 9CI. Ethylene glycol cyclic sulfite, 8CI. Ethylene sulfite

CAS Registry Number: 3741-38-6

Molecular Formula: C₂H₄O₃S

Molecular Weight: 108.118

Accurate Mass: 107.988115

Percentage Composition: C 22.22%; H 3.73%; O 44.39%; S 29.66%

Physical Description: Liq.

Boiling Point: Bp 169-172°

Hazard & Toxicity: LD₅₀ (mus, ipr) 250 mg/kg. Fl. p. 114°

Aldrich: G720-8

Fluka: 3920

>>Derivative: S,S-Dioxide

Synonym(s): 1,3,2-Dioxathiolane 2,2-dioxide, 9CI. Ethylene glycol cyclic sulfate. Ethylene sulfate. ESF

CAS Registry Number: 1072-53-3

Molecular Formula: C₂H₄O₄S

Molecular Weight: 124.117

Accurate Mass: 123.98303

Percentage Composition: C 19.35%; H 3.25%; O 51.56%; S 25.84%

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 99°

Boiling Point: Bp₃ 110-142°. Bp₁ 60° subl.

Hazard & Toxicity: Exp. neoplastic agent

Aldrich: 47169-0

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