



>>Entry Name: Diethyl sulfate, 9CI

Synonym(s): Ethyl sulfate

CAS Registry Number: 64-67-5

EtOSO₂OEt

Molecular Formula: C₄H₁₀O₄S

Molecular Weight: 154.187

Accurate Mass: 154.02998

Percentage Composition: C 31.16%; H 6.54%; O 41.51%; S 20.80%

Use/Importance: Ethylating agent. Reagent for derivatising phenols and carboxylic acids for gc anal.

Physical Description: Oily liq.

Melting Point: Mp -24.5°

Boiling Point: Bp 208° sl. dec.. Bp₁₅ 96°

Solubility: Insol. H₂O

Density: d₀¹⁸ 1.18

Refractive Index: n_D¹⁸ 1.4010

Hazard & Toxicity: Fl. p. 83/104°, autoignition temp. 436°. Probable human carcinogen. Corrosive to tissues. Severe skin irritant. Exp. carcinogen and teratogen

Aldrich: 32028-5

Fluka: 32520

Sigma: D3263

References:

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