



>>Entry Name: 3,3'-Oxybispropanoic acid

Synonym(s): Bis(2-carboxyethyl)ether. Diethyl ether 2,2'-dicarboxylic acid

CAS Registry Number: 5961-83-1

HOOCCH₂CH₂OCH₂CH₂COOH

Molecular Formula: C₆H₁₀O₅

Molecular Weight: 162.142

Accurate Mass: 162.052825

Percentage Composition: C 44.45%; H 6.22%; O 49.34%

Physical Description: Cryst. (Me₂CO/petrol)

Melting Point: Mp 60-61° (48-49°)

>>Derivative: Di-Me ester

Molecular Formula: C₈H₁₄O₅

Molecular Weight: 190.196

Accurate Mass: 190.084125

Percentage Composition: C 50.52%; H 7.42%; O 42.06%

Boiling Point: Bp₃ 90-91°

>>Derivative: Dichloride

CAS Registry Number: 44995-78-0

Molecular Formula: C₆H₈Cl₂O₃

Molecular Weight: 199.033

Accurate Mass: 197.985049

Percentage Composition: C 36.21%; H 4.05%; Cl 35.62%; O 24.12%

Physical Description: Oil

Boiling Point: Bp₁ 85-88°

>>Derivative: Diamide

Molecular Formula: C₆H₁₂N₂O₃

Molecular Weight: 160.172

Accurate Mass: 160.084793

Percentage Composition: C 44.99%; H 7.55%; N 17.49%; O 29.97%

Melting Point: Mp 146°

>>Derivative: Dinitrile

Synonym(s): 3,3'-Oxybispropanenitrile, 9Cl. Bis(2-cyanoethyl)ether. 2,2'-Dicyanodiethyl ether

CAS Registry Number: 1656-48-0

Molecular Formula: C₆H₈N₂O

Molecular Weight: 124.142

Accurate Mass: 124.063663

Percentage Composition: C 58.05%; H 6.50%; N 22.57%; O 12.89%

Physical Description: Oil

Boiling Point: Bp 167-174°. Bp₂ 137-138°

Density: d₂₅²⁵ 1.05

Hazard & Toxicity: Eye irritant. LD₅₀ (rat, orl) 2830 mg/kg

Aldrich: C9120-4

Fluka: 75962

Sigma: O1377

References: