



>>Entry Name: (Ethylenedioxy)diacetic acid, 8CI

Synonym(s): 2,2'-[1,2-Ethanediybis(oxy)]bisacetic acid, 9CI. Ethylenediglycolic acid. 1,2-Bis(2-carboxyethoxy)ethane. 3,6-Dioxaoctanedioic acid. Triglycolic acid

CAS Registry Number: 23243-68-7

Related CAS Registry Numbers(s): 40989-26-2 41999-72-8 41999-73-9

HOOCCH₂OCH₂CH₂OCH₂COOH

Molecular Formula: C₆H₁₀O₆

Molecular Weight: 178.141

Accurate Mass: 178.04774

Percentage Composition: C 40.45%; H 5.66%; O 53.89%

Use/Importance: Complexing agent. Also used in synth. of crown ethers and cryptands

Physical Description: Cryst. (Me₂CO/C₆H₆)

Melting Point: Mp 74-75°

Aldrich: 40698-8

>>Derivative: Di-Na salt

CAS Registry Number: 40349-83-5

Physical Description: Plates (EtOH aq.)

Melting Point: Mp 133-135°

>>Derivative: Ca complex

CAS Registry Number: 63835-50-7

Physical Description: Cryst. + 3H₂O

Melting Point: Mp 318-320°

>>Derivative: Di-Me ester

CAS Registry Number: 54665-51-9

Molecular Formula: C₈H₁₄O₆

Molecular Weight: 206.195

Accurate Mass: 206.07904

Percentage Composition: C 46.60%; H 6.84%; O 46.56%

Boiling Point: Bp₄ 138-140°

>>Derivative: Dichloride

CAS Registry Number: 31255-09-1

Molecular Formula: C₆H₈Cl₂O₄

Molecular Weight: 215.032

Accurate Mass: 213.979964

Percentage Composition: C 33.51%; H 3.75%; Cl 32.97%; O 29.76%

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 19-20°

>>Derivative: Dihydrazide

CAS Registry Number: 98275-98-0

Melting Point: Mp 128-130°

>>Derivative: Bis(diphenylamide)

Synonym(s): *N,N,N',N'*-Tetraphenyl-3,6-dioxaoctanediamide. tdd

Molecular Formula: C₃₀H₂₈N₂O₄

Molecular Weight: 480.562

Accurate Mass: 480.204908

Percentage Composition: C 74.98%; H 5.87%; N 5.83%; O 13.32%

Use/Importance: Effective reagent for extraction and ion-selective electrode analysis of rare earths

References: