



>>Derivative: Monoamide

Synonym(s): Aminooxoacetic acid, 9CI. Oxamic acid. Oxaminic acid. Oxalamic acid. Aminocarbonylformic acid. Oxoglycine

CAS Registry Number: 471-47-6

Molecular Formula: $C_2H_3NO_3$

Molecular Weight: 89.051

Accurate Mass: 89.011294

Percentage Composition: C 26.98%; H 3.40%; N 15.73%; O 53.90%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 210 dec.°

Solubility: Spar. sol. H₂O; insol. EtOH, Et₂O

Aldrich: O-920-4

Fluka: 75775

Sigma: O3750

>>Derivative: Amide-Et ester

Synonym(s): Ethyl oxamate. Oxamethane. Ethoxalamide

CAS Registry Number: 617-36-7

Molecular Formula: $C_4H_7NO_3$

Molecular Weight: 117.104

Accurate Mass: 117.042594

Percentage Composition: C 41.03%; H 6.02%; N 11.96%; O 40.99%

Physical Description: Cryst.

Melting Point: Mp 115-116°

Aldrich: E4320-9

Fluka: 75780

Sigma: O1251

>>Derivative: Methylamide

Synonym(s): Methyloxamic acid

CAS Registry Number: 29262-58-6

Molecular Formula: $C_3H_5NO_3$

Molecular Weight: 103.077

Accurate Mass: 103.026944

Percentage Composition: C 34.96%; H 4.89%; N 13.59%; O 46.57%

Physical Description: Cryst. (H₂O or EtOH)

Melting Point: Mp 145-146°

Other Data: Steam-volatile. Sublimes

>>Derivative: Dimethylamide

Synonym(s): (Dimethylamino)oxoacetic acid, 9CI. Dimethyloxamic acid

CAS Registry Number: 32833-96-8

Molecular Formula: $C_4H_7NO_3$

Molecular Weight: 117.104

Accurate Mass: 117.042594

Percentage Composition: C 41.03%; H 6.02%; N 11.96%; O 40.99%

Physical Description: Prisms (MeOH)

Melting Point: Mp 130 dec.°

Solubility: Sol. H₂O, EtOH; spar. sol. Et₂O, C₆H₆

>>Derivative: Dimethylamide-Et ester

Synonym(s): Ethyl *N,N*-dimethyloxamate

CAS Registry Number: 16703-52-9

Molecular Formula: $C_6H_{11}NO_3$

Molecular Weight: 145.158

Accurate Mass: 145.073894

Percentage Composition: C 49.65%; H 7.64%; N 9.65%; O 33.07%

Boiling Point: Bp₁₅ 119°

Other: PB E07785

>>Derivative: Diamide

Synonym(s): Oxamide. Ethanediamide, 9CI. Oxalamide