



Melting Point: Mp 116-118 dec.°

>>**Derivative:** *N*-Formyl, di-Me ester

Synonym(s): Dimethyl formamidomalonate

CAS Registry Number: 27160-23-2

Molecular Formula: C₆H₉NO₅

Molecular Weight: 175.141

Accurate Mass: 175.048074

Percentage Composition: C 41.15%; H 5.18%; N 8.00%; O 45.68%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 85°

Solubility: Spar. sol. Et₂O

>>**Derivative:** *N*-Formyl, di-Et ester

CAS Registry Number: 6326-44-9

Molecular Formula: C₈H₁₃NO₅

Molecular Weight: 203.194

Accurate Mass: 203.079374

Percentage Composition: C 47.29%; H 6.45%; N 6.89%; O 39.37%

Physical Description: Cryst.

Melting Point: Mp 48-49°

Boiling Point: Bp_{2.5} 130-132° (lit. gives a pressure range)

Aldrich: D9560-3

Sigma: D4128

>>**Derivative:** Diamide

Synonym(s): Aminomalonamide

CAS Registry Number: 62009-47-6

Molecular Formula: C₃H₇N₃O₂

Molecular Weight: 117.107

Accurate Mass: 117.053827

Percentage Composition: C 30.77%; H 6.02%; N 35.88%; O 27.32%

Physical Description: Needles (EtOH)

Melting Point: Mp 167°

Rare Chemicals Library: S68010-9

>>**Derivative:** Mononitrile

Synonym(s): 2-Cyanoglycine, 8Cl. 2-Amino-2-cyanoacetic acid

CAS Registry Number: 6232-21-9

Molecular Formula: C₃H₄N₂O₂

Molecular Weight: 100.077

Accurate Mass: 100.027278

Percentage Composition: C 36.01%; H 4.03%; N 27.99%; O 31.97%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 124 dec.°

Other Data: Known in opt. active form, but virtually racemic

>>**Derivative:** Nitrile-amide

Synonym(s): 2-Amino-2-cyanoacetamide. Glycocyamidine

Molecular Formula: C₃H₅N₃O

Molecular Weight: 99.092

Accurate Mass: 99.043262

Percentage Composition: C 36.36%; H 5.09%; N 42.41%; O 16.15%

Use/Importance: Strong inhibitor of *Escherichia coli* glutamate decarboxylase (EC 4.1.1.15)

Physical Description: Rhombohedral leaflets (EtOAc)

Melting Point: Mp 122-124°