



Melting Point: Mp 129°

Other Data: Racemate

Aldrich: E960-9

Fluka: 250

Sigma: E1251

>> **Derivative:** Dinitrile

>> **Derivative:** *N*-Ac

Synonym(s): Acetamidomalonic acid

CAS Registry Number: 55327-87-2

Molecular Formula: C₅H₇NO₅

Molecular Weight: 161.114

Accurate Mass: 161.032424

Percentage Composition: C 37.27%; H 4.38%; N 8.69%; O 49.65%

Physical Description: Needles (Me₂CO/pentane)

Melting Point: Mp 122 dec.°

Other Data: Resolidifies, remelting with darkening at 206°

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

Synonym(s): Diethyl acetamidomalonate

CAS Registry Number: 1068-90-2

Molecular Formula: C₉H₁₅NO₅

Molecular Weight: 217.221

Accurate Mass: 217.095024

Percentage Composition: C 49.76%; H 6.96%; N 6.45%; O 36.83%

Use/Importance: Used in synth. of α-aminoacids

Physical Description: Cryst. (H₂O)

Melting Point: Mp 95-97°

Hazard & Toxicity: Eye irritant

Aldrich: D8460-1

Fluka: 310

Rare Chemicals Library: S26620-5

Sigma: A6384

>> **Derivative:** *N*-Me

Synonym(s): (Methylamino)malonic acid

CAS Registry Number: 38105-11-2

Molecular Formula: C₄H₇NO₄

Molecular Weight: 133.104

Accurate Mass: 133.037509

Percentage Composition: C 36.10%; H 5.30%; N 10.52%; O 48.08%

Physical Description: Plates (H₂O)

Other Data: Dec. at 137-142°

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

CAS Registry Number: 103218-10-6

Molecular Formula: C₆H₁₁NO₄

Molecular Weight: 161.157

Accurate Mass: 161.068809

Percentage Composition: C 44.72%; H 6.88%; N 8.69%; O 39.71%

Physical Description: Liq.

Boiling Point: Bp₄ 78°

Refractive Index: n_D²⁰ 1.4342