



Physical Description: Cryst. + 1H₂O

Melting Point: Mp 174°

>>**Derivative:** Dihydrazide

CAS Registry Number: 20318-46-1

Molecular Formula: C₄H₁₁N₅O₂

Molecular Weight: 161.163

Accurate Mass: 161.091275

Percentage Composition: C 29.81%; H 6.88%; N 43.46%; O 19.85%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 135 dec.°

>>**Derivative:** 1-Mononitrile

Synonym(s): 3-Amino-3-cyanopropanoic acid, 9Cl. β-Cyano-β-alanine

CAS Registry Number: 68703-97-9

Molecular Formula: C₄H₆N₂O₂

Molecular Weight: 114.104

Accurate Mass: 114.042928

Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Physical Description: Needles

Melting Point: Mp 122.5 dec.°

Optical Rotation: [α]_D²⁶ -12.1 (c, 0.57 in H₂O)

>>**Derivative:** *N*-Formyl

CAS Registry Number: 19427-28-2

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%

Source/Synthesis: Prod. of histidine degradn.

Use/Importance: Used in synth. of Aspartame [BDS15-X](#)

Melting Point: Mp 136-137° (130-131°)

Optical Rotation: [α]_D²⁰ +22.2 (c, 1 in 7.5*M* HCOOH)

Sigma: F9126

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

Synonym(s): *N*-Acetylaspartic acid

CAS Registry Number: 997-55-7

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%

Biological Use/Importance: The Di-Li salt is administered as a psychotropic agent, *Dilithium *N*-acetylaspartate*

Physical Description: Cryst. (Me₂COaq.)

Melting Point: Mp 139-140°

>>**Derivative:** *N*-Benzoyl

CAS Registry Number: 4631-12-3

Molecular Formula: C₁₁H₁₁NO₅

Molecular Weight: 237.212

Accurate Mass: 237.063724

Percentage Composition: C 55.70%; H 4.67%; N 5.90%; O 33.72%

Biological Source: Constit. of pea (*Pisum sativum*)

Melting Point: Mp 171-173°

Optical Rotation: [α]_D²⁰ +37 (c, 10 in 1*M* NaOH)