



Molecular Formula: C₃H₈N₂O₂

Molecular Weight: 104.108

Accurate Mass: 104.058578

Percentage Composition: C 34.61%; H 7.75%; N 26.91%; O 30.74%

Biological Source: Isol. in free form from seeds of *Mimosa* spp. Residue present in Viomycin [CJN84-T](#) and Albizziine [HDW42-L](#)

Melting Point: Mp 237 dec.°

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 28843-13-2

Melting Point: Mp 237 dec.°

Optical Rotation: [α]_D²⁵ +25.2 (1M HCl)

>>Derivative: N³-Ac

Synonym(s): 3-Acetamido-2-aminopropanoic acid. β -Acetamidoalanine

CAS Registry Number: 20584-70-7

Molecular Formula: C₅H₁₀N₂O₃

Molecular Weight: 146.146

Accurate Mass: 146.069143

Percentage Composition: C 41.09%; H 6.90%; N 19.17%; O 32.84%

Biological Source: Isol. from *Acacia armata* seeds

Optical Rotation: [α]_D²⁰ -81 (c, 8 in H₂O). [α]_D²⁰ -33 (c, 4 in 6M HCl)

>>Derivative: N²-*tert*-Butyloxycarbonyl

Molecular Formula: C₈H₁₆N₂O₄

Molecular Weight: 204.225

Accurate Mass: 204.111008

Percentage Composition: C 47.05%; H 7.90%; N 13.72%; O 31.34%

Use/Importance: Synthon for various antibiotics

Melting Point: Mp 202° (197-199°)

>>Derivative: N³-Me

Synonym(s): 2-Amino-3-(methylamino)propanoic acid

CAS Registry Number: 15920-93-1

Biological Source: Aminoacid from seeds of *Cycas circinalis*

Physical Description: Cryst. (as hydrochloride)

Melting Point: Mp 168 dec.° (hydrochloride)

Optical Rotation: [α]_D²⁵ +35 (c, 1.15 in 5M HCl)

Hazard & Toxicity: Toxic, exp. carcinogen

>>Derivative: N³-Nitro

Synonym(s): (3-Nitroamino)alanine, 9Cl. 2-Amino-3-nitraminopropionic acid

CAS Registry Number: 58130-89-5

Molecular Formula: C₃H₇N₃O₄

Molecular Weight: 149.106

Accurate Mass: 149.043657

Percentage Composition: C 24.17%; H 4.73%; N 28.18%; O 42.92%

Biological Source: Isol. from *Agaricus silvaticus*

Physical Description: Cryst. (EtOH aq.)

>>Variant: ($\pm$)-form

CAS Registry Number: 6018-54-8

Molecular Formula: C₃H₈N₂O₂

Molecular Weight: 104.108

Accurate Mass: 104.058578

Percentage Composition: C 34.61%; H 7.75%; N 26.91%; O 30.74%

Melting Point: Mp 110-120° (softens at 97°)

pKa Value: pK_{a2} 6.79; pK_{a3} 9.51 (25°, 0.1M KCl)

Other Data: Hygroscopic. Absorbs CO₂