Molecular Formula: $C_3H_8N_2O_2$
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: $[\alpha]_D^{25}$+25.2 (1*M* HCl)

>>**Derivative:** N^3-Ac
Synonym(s): 3-Acetamido-2-aminopropanoic acid. β-Acetamidoalanine

CAS Registry Number: 20584-70-7

Molecular Formula: $C_5H_{10}N_2O_3$
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: $[\alpha]_D^{20}$–81 (c, 8 in H_2O). $[\alpha]_D^{20}$–33 (c, 4 in 6*M* HCl)

>>**Derivative:** N^2-*tert*-Butyloxycarbonyl

Molecular Formula: $C_8H_{16}N_2O_4$
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:** N^3-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: $[\alpha]_D^{25}$+35 (c, 1.15 in 5*M* HCl)
Hazard & Toxicity: Toxic, exp. carcinogen

>>**Derivative:** N^3-Nitro
Synonym(s): (3-Nitroamino)alanine, 9Cl. 2-Amino-3-nitraminopropionic acid

CAS Registry Number: 58130-89-5
Molecular Formula: $C_3H_7N_3O_4$
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:** (±)-form

CAS Registry Number: 6018-54-8
Molecular Formula: $C_3H_8N_2O_2$
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°, 0.1*M* KCl)
Other Data: Hygroscopic. Absorbs CO_2