>>**Entry Name: Glycine**
ENTRY UNDER REVIEW
Synonym(s): Aminoacetic acid, ^{9Cl}. Glycocoll. Glue sugar. Gly. FEMA 3287

CAS Registry Number: 56-40-6
Related CAS Registry Numbers(s): 920-25-2 2184-96-5 4896-77-9 6000-44-8 7299-33-4 23297-34-9 104403-70-5

H_2NCH_2COOH

Molecular Formula: $C_2H_5NO_2$
Molecular Weight: 75.067
Accurate Mass: 75.032029
Percentage Composition: C 32.00%; H 6.71%; N 18.66%; O 42.63%

Biological Source: Occurs widely in peptides and proteins
Use/Importance: Catalyst for Knoevenagel condensations. Used for detn. of Cu, Au
Biological Use/Importance: NMDA agonist. Dietary supplement, nutrient. Used in urogenital irrigating solutions for some surgical procedures
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 292 (262°) dec.°
Solubility: V. sol. H_2O (25g/100g at 25°); sol. H_2O; sl. sol. EtOH
pKa Value: pK_{a1} 2.35; pK_{a2} 9.78 (25°)
Other Data: Isoelectric point 5.97. Sweet taste.
Hazard & Toxicity: LD_{50} (rat, orl) 7930 mg/kg. Adverse effects of irrigation solutions observed

Aldrich: 24126-1
Fluka: 50052
Sigma: G1643

>>**Derivative:** Hydrochloride

CAS Registry Number: 6000-43-7
Melting Point: Mp 185°

Aldrich: 21950-9
Sigma: G2879

>>**Derivative:** Sulfate (3:1)
Synonym(s): Triglycine sulfate

CAS Registry Number: 513-29-1
Use/Importance: Forms a ferroelectric phase
Physical Description: Cryst.

>>**Derivative:** Me ester

CAS Registry Number: 616-34-2
Molecular Formula: $C_3H_7NO_2$
Molecular Weight: 89.094
Accurate Mass: 89.047679
Percentage Composition: C 40.44%; H 7.92%; N 15.72%; O 35.92%
Boiling Point: Bp 130° dec.. Bp_{50} 54°

>>**Derivative:** Me ester; hydrochloride

CAS Registry Number: 5680-79-5
Melting Point: Mp 175°
Solubility: Sol. EtOH
Aldrich: G660-0
Fluka: 50110
Sigma: G8126

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