



>>Entry Name: Glycylglycine

CAS Registry Number: 556-50-3

H2NCH2CONHCH2COOH

Molecular Formula: C₄H₈N₂O₃

Molecular Weight: 132.119

Accurate Mass: 132.053493

Percentage Composition: C 36.36%; H 6.10%; N 21.20%; O 36.33%

Use/Importance: Nontoxic pH buffer for cosmetics, cell cultures etc.

Physical Description: Leaflets (EtOH aq.)

Melting Point: Mp 260-262 dec. ° (215-220°, 235-236°)

Solubility: Sol. hot H₂O; insol. EtOH, Et₂O

pKa Value: pK_{a1} 3.12; pK_{a2} 8.17 (25°)

Aldrich: G780-1

Fluka: 50200

Sigma: G7278

>>Derivative: Me ester

CAS Registry Number: 5619-16-9

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%

Melting Point: Mp 89° (sinters)

>>Derivative: Et ester

CAS Registry Number: 627-74-7

Molecular Formula: C₆H₁₂N₂O₃

Molecular Weight: 160.172

Accurate Mass: 160.084793

Percentage Composition: C 44.99%; H 7.55%; N 17.49%; O 29.97%

Physical Description: Cryst. (EtOH/EtOAc)

Melting Point: Mp 85°

>>Derivative: Et ester; hydrochloride

CAS Registry Number: 2087-41-4

Physical Description: Cryst. (EtOH)

Melting Point: Mp 185-186°

>>Derivative: *N*-Ac

Molecular Formula: C₆H₁₀N₂O₄

Molecular Weight: 174.156

Accurate Mass: 174.064058

Percentage Composition: C 41.38%; H 5.79%; N 16.09%; O 36.75%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 187-189°

>>Derivative: *N*-Benzoyl

CAS Registry Number: 1145-32-0

Molecular Formula: C₁₁H₁₂N₂O₄

Molecular Weight: 236.227

Accurate Mass: 236.079708

Percentage Composition: C 55.93%; H 5.12%; N 11.86%; O 27.09%

Melting Point: Mp 208°