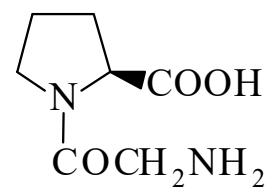




>>Entry Name: *N*-Glycylproline

Synonym(s): *N*-Aminoacetyl-2-pyrrolidinecarboxylic acid



Molecular Formula: C₇H₁₂N₂O₃

Molecular Weight: 172.183

Accurate Mass: 172.084793

Percentage Composition: C 48.83%; H 7.02%; N 16.27%; O 27.88%

>>Variant: (*S*)-form

Synonym(s): L-form

CAS Registry Number: 704-15-4

Molecular Formula: C₇H₁₂N₂O₃

Molecular Weight: 172.183

Accurate Mass: 172.084793

Percentage Composition: C 48.83%; H 7.02%; N 16.27%; O 27.88%

Physical Description: Prisms (MeOH aq.)

Melting Point: Mp 185°

Optical Rotation: [α]_D²⁰ -113.8 (H₂O). [α]_D¹⁸ -86.2

pKa Value: p*K*_{a2} 8.65 (25°)

Other Data: Hygroscopic

Sigma: G3002

>>Derivative: Lactam

Molecular Formula: C₇H₁₀N₂O₂

Molecular Weight: 154.168

Accurate Mass: 154.074228

Percentage Composition: C 54.54%; H 6.54%; N 18.17%; O 20.76%

Melting Point: Mp 180-183°

Optical Rotation: [α]_D²⁰ -202

>>Derivative: *N*-Benzyloxycarbonyl

CAS Registry Number: 1160-54-9

Use/Importance: Chiral additive for enantiomeric separation of amines and amino acids

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 158-159°

Optical Rotation: [α]_D -77.5 (c, 2 in CHCl₃)

Fluka: 96270

Sigma: C0502

>>Derivative: *N*-Benzyloxycarbonyl, Me ester

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 49-50°

>>Derivative: *N*-tert-Butyloxycarbonyl

Melting Point: Mp 142-144°

Optical Rotation: [α]_D -68.8 (c, 2.1 in DMF)

References: