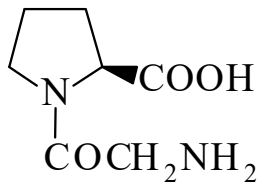
>>**Entry Name: *N*-Glycylproline**
Synonym(s): *N*-Aminoacetyl-2-pyrrolidinecarboxylic acid



Molecular Formula: $C_7H_{12}N_2O_3$
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: $C_7H_{12}N_2O_3$
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: $[\alpha]_D^{20}$ –113.8 (H_2O). $[\alpha]_D^{18}$ –86.2
pKa Value: pK_{a2} 8.65 (25°)
Other Data: Hygroscopic
Sigma: G3002

>>**Derivative:** Lactam

Molecular Formula: $C_7H_{10}N_2O_2$
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: $[\alpha]_D^{20}$ –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: $[\alpha]_D$ –77.5 (c, 2 in $CHCl_3$)
Fluka: 96270
Sigma: C0502

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

Physical Description: Cryst. (Et_2O/petrol)
Melting Point: Mp 49-50°

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

Melting Point: Mp 142-144°
Optical Rotation: $[\alpha]_D$ –68.8 (c, 2.1 in DMF)

References: