



Accurate Mass: 145.073894
Percentage Composition: C 49.65%; H 7.64%; N 9.65%; O 33.07%
Melting Point: Mp 212-214°
Optical Rotation: $[\alpha]_{\text{D}}^{25} -110.8$ (c, 1 in H₂O). $[\alpha]_{\text{D}} -65.7$ (c, 1 in 5M HCl)

>>**Variant:** (2*S*,3*S*)-form
Synonym(s): L-*trans*-form

CAS Registry Number: 4298-08-2

Molecular Formula: C₅H₉NO₃
Molecular Weight: 131.131
Accurate Mass: 131.058244
Percentage Composition: C 45.80%; H 6.92%; N 10.68%; O 36.60%
Biological Source: Constit. of collagen and the antibiotic Telomycin [CKS72-U](#)
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 230-236° (dec.) (232°)
Optical Rotation: $[\alpha]_{\text{D}}^{20} -18.8$ (c, 0.14 in H₂O)
Fluka: 56244

>>**Derivative:** Et ester

Molecular Formula: C₇H₁₃NO₃
Molecular Weight: 159.185
Accurate Mass: 159.089544
Percentage Composition: C 52.82%; H 8.23%; N 8.80%; O 30.15%
Melting Point: Mp 125-130° (as hydrochloride)

>>**Derivative:** N-Me
Synonym(s): 3-Hydroxy-1-methyl-2-pyrrolidinecarboxylic acid. 3-Hydroxy-1-methylproline

Molecular Formula: C₆H₁₁NO₃
Molecular Weight: 145.158
Percentage Composition: C 49.65%; H 7.64%; N 9.65%; O 33.07%
Biological Source: Isol. from *Tamarix ramosissima*
Physical Description: Cryst. (as hydrochloride)
Other Data: Abs. config. apparently not detd., probably as given here

>>**Derivative:** Me ether

Molecular Formula: C₆H₁₁NO₃
Molecular Weight: 145.158
Accurate Mass: 145.073894
Percentage Composition: C 49.65%; H 7.64%; N 9.65%; O 33.07%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 216.5-219°
Optical Rotation: $[\alpha]_{\text{D}}^{25} -25.3$ (c, 1 in H₂O). $[\alpha]_{\text{D}} +7.8$ (c, 1 in 5M HCl)

>>**Variant:** (2*RS*,3*SR*)-form
Synonym(s): (±)-*cis*-form

CAS Registry Number: 4298-05-9
Molecular Formula: C₅H₉NO₃
Molecular Weight: 131.131
Accurate Mass: 131.058244
Percentage Composition: C 45.80%; H 6.92%; N 10.68%; O 36.60%
Melting Point: Mp 225-235 dec.°
Aldrich: 42017-4
Fluka: 56245
Sigma: H6152