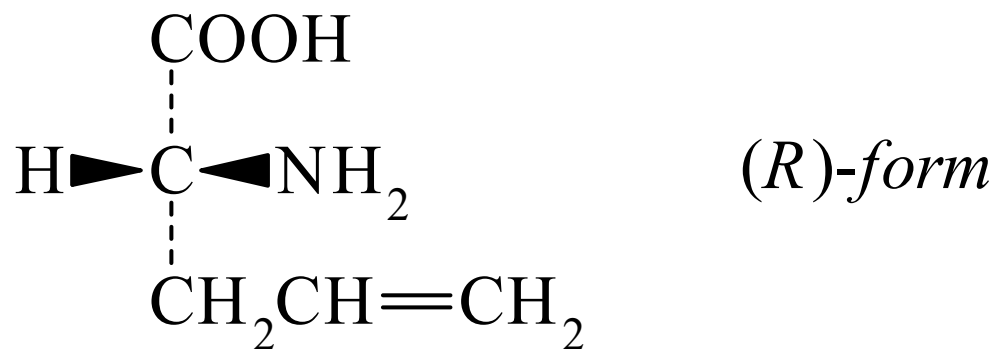




>>Entry Name: 2-Amino-4-pentenoic acid, 9CI

Synonym(s): Allylglycine. 2-(2-Propenyl)glycine



CAS Registry Number: 1069-48-3

Molecular Formula: C₅H₉NO₂

Molecular Weight: 115.132

Accurate Mass: 115.063329

Percentage Composition: C 52.16%; H 7.88%; N 12.17%; O 27.79%

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 54594-06-8

Molecular Formula: C₅H₉NO₂

Molecular Weight: 115.132

Accurate Mass: 115.063329

Percentage Composition: C 52.16%; H 7.88%; N 12.17%; O 27.79%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 240-241 dec.°

Optical Rotation: [α]_D²⁴+37.8 (c, 4 in H₂O). [α]_D²⁴+5.7 (c, 2 in 6M HCl)

Fluka: 5957

Sigma: A8137

>>Derivative: N-Ac

CAS Registry Number: 121786-40-1

Molecular Formula: C₇H₁₁NO₃

Molecular Weight: 157.169

Accurate Mass: 157.073894

Percentage Composition: C 53.49%; H 7.05%; N 8.91%; O 30.54%

Physical Description: Cryst. (Me₂CO/petrol)

Optical Rotation: [α]_D²²−42 (c, 4 in H₂O)

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 16338-48-0

Molecular Formula: C₅H₉NO₂

Molecular Weight: 115.132

Accurate Mass: 115.063329

Percentage Composition: C 52.16%; H 7.88%; N 12.17%; O 27.79%

Biological Source: Isol. from (probably toxic) *Amanita pseudoporphyria* and *Amanita abrupta*

Biological Use/Importance: Antimetabolite against *E. coli* and *Saccharomyces* yeasts. Protein synthesis inhibitor

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 275-280 (241-243°) dec.°

Optical Rotation: [α]_D²⁴−37.1 (c, 4 in H₂O). [α]_D²⁴−5.7 (c, 2 in 6M HCl)

Aldrich: 28501-3

Fluka: 5958

Sigma: A7762

>>Derivative: N-tert-Butyloxycarbonyl

CAS Registry Number: 90600-20-7

Molecular Formula: C₁₀H₁₇NO₄

Molecular Weight: 215.249

Accurate Mass: 215.115759

Percentage Composition: C 55.80%; H 7.96%; N 6.51%; O 29.73%

Physical Description: Viscous oil

Optical Rotation: [α] −3.9 (c, 1 in CH₂Cl₂)