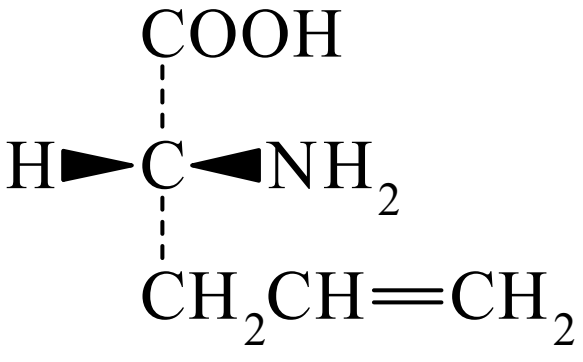
>>**Entry Name: 2-Amino-4-pentenoic acid,** 9CI
Synonym(s): Allylglycine. 2-(2-Propenyl)glycine



(*R*)-*form*

CAS Registry Number: 1069-48-3

Molecular Formula: $C_5H_9NO_2$
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: $C_5H_9NO_2$
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: $[\alpha]_D^{24}$+37.8 (c, 4 in H_2O). $[\alpha]_D^{24}$+5.7 (c, 2 in 6*M* HCl)
Fluka: 5957
Sigma: A8137

>>**Derivative:** *N*-Ac

CAS Registry Number: 121786-40-1
Molecular Formula: $C_7H_{11}NO_3$
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. (Me_2CO/petrol)
Optical Rotation: $[\alpha]_D^{22}$–42 (c, 4 in H_2O)

>>**Variant:** (*S*)-form
Synonym(s): L-form

CAS Registry Number: 16338-48-0

Molecular Formula: $C_5H_9NO_2$
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: $[\alpha]_D^{24}$–37.1 (c, 4 in H_2O). $[\alpha]_D^{24}$–5.7 (c, 2 in 6*M* HCl)
Aldrich: 28501-3
Fluka: 5958
Sigma: A7762

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

CAS Registry Number: 90600-20-7
Molecular Formula: $C_{10}H_{17}NO_4$
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 CH_2Cl_2)