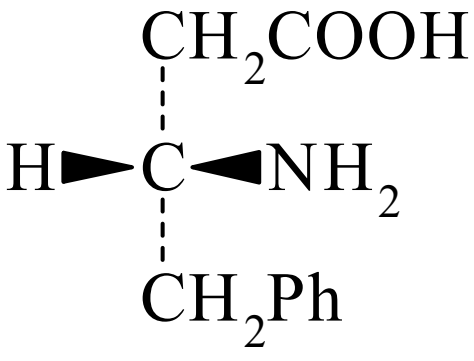
>>**Entry Name: 3-Amino-4-phenylbutanoic acid,** 8CI
Synonym(s): β-Aminobenzenebutanoic acid, 9CI. β-Homophenylalanine



(*R*)-*form*

Molecular Formula: $C_{10}H_{13}NO_2$
Molecular Weight: 179.218
Accurate Mass: 179.094629
Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%

>>**Variant:** (*R*)-form

CAS Registry Number: 131270-08-1
Molecular Formula: $C_{10}H_{13}NO_2$
Molecular Weight: 179.218
Accurate Mass: 179.094629
Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%
Optical Rotation: $[\alpha]_D^{23}$ –8.5 (c, 0.2 in H_2O)

>>**Derivative:** Me ester

Molecular Formula: $C_{11}H_{15}NO_2$
Molecular Weight: 193.245
Accurate Mass: 193.110279
Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%
Physical Description: Cryst. (as hydrochloride)
Melting Point: Mp 133-134° (hydrochloride)
Optical Rotation: $[\alpha]_D^{25}$ –9.2 (c, 1.5 in MeOH) (hydrochloride)

>>**Variant:** (*S*)-form

CAS Registry Number: 26250-87-3
Molecular Formula: $C_{10}H_{13}NO_2$
Molecular Weight: 179.218
Accurate Mass: 179.094629
Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 231-232° (225-226°)
Optical Rotation: $[\alpha]_D$ +22.1 (c, 1.5 in H_2O)

>>**Derivative:** *N*-9-Fluorenylmethoxycarbonyl

CAS Registry Number: 193954-28-8
Molecular Formula: $C_{25}H_{23}NO_4$
Molecular Weight: 401.461
Accurate Mass: 401.162709
Percentage Composition: C 74.80%; H 5.77%; N 3.49%; O 15.94%
Physical Description: Cryst. ($CHCl_3$/hexane)
Optical Rotation: $[\alpha]_D$ –19.3 (c, 1.23 in $CHCl_3$)

>>**Variant:** (±)-form

CAS Registry Number: 131725-48-9
Molecular Formula: $C_{10}H_{13}NO_2$
Molecular Weight: 179.218
Accurate Mass: 179.094629
Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 226°

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