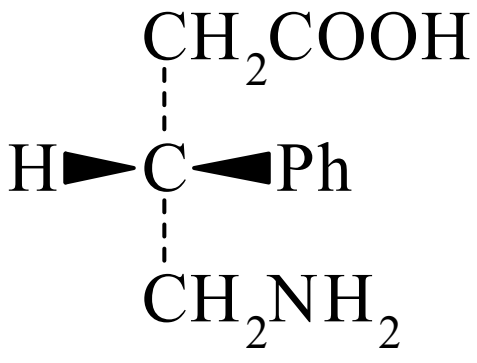
>>**Entry Name: 4-Amino-3-phenylbutanoic acid**

Synonym(s): β-(Aminomethyl)benzenepropanoic acid, 9CI. β-(Aminomethyl)hydrocinnamic acid, 8CI. β-PhenylGABA. Fenibut. Fenigam. Phenibut. Phenigam. Phenybut. Phenygam. Phenylgamma. PHG



(*R*)-*form*

CAS Registry Number: 1078-21-3
Related CAS Registry Numbers(s): 3060-41-1 35568-36-6 52950-37-5 52992-48-0

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%
Use/Importance: Mood elevator and tranquilliser
Calculated Log P Data: Log P –2.05 (calc)
Hazard & Toxicity: LD_{50} (rat, ipr) 700 mg/kg

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

CAS Registry Number: 35568-36-6
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 149-152 dec.°
Boiling Point: Subl. 193-194°
Optical Rotation: $[\alpha]_D$ –6 (c, 2.5 in H_2O). $[\alpha]_D$ +2.3 (c, 1.3 in HCl aq., pH1)

>>**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: Needles (MeOH/THF) (as hydrochloride)
Melting Point: Mp 170-171° (hydrochloride)
Optical Rotation: $[\alpha]_D^{22}$+5.26 (c, 1.04 in MeOH)

>>**Derivative:** *N-tert*-Butoxycarbonyl

Molecular Formula: $C_{15}H_{21}NO_4$
Molecular Weight: 279.335
Accurate Mass: 279.147059
Percentage Composition: C 64.50%; H 7.58%; N 5.01%; O 22.91%
Physical Description: Cryst. (Et_2O/pentane)
Melting Point: Mp 106-107°
Optical Rotation: $[\alpha]_D^{22}$+7.78 (c, 1.08 in MeOH)

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

CAS Registry Number: 62596-63-8
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. (Et_2O/EtOH aq.)
Melting Point: Mp 213-214°
Optical Rotation: [α]