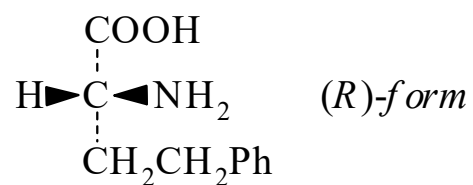




>>Entry Name: 2-Amino-4-phenylbutanoic acid

Synonym(s): α -Aminobenzenebutanoic acid, 9Cl. Homophenylalanine



CAS Registry Number: 7636-28-4

Molecular Formula: $\text{C}_{10}\text{H}_{13}\text{NO}_2$

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

Synonym(s): D-form

CAS Registry Number: 82795-51-5

Molecular Formula: $\text{C}_{10}\text{H}_{13}\text{NO}_2$

Molecular Weight: 179.218

Accurate Mass: 179.094629

Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%

Optical Rotation: $[\alpha]_{\text{D}} +33$ (20% HCl)

Aldrich: 29436-5

Fluka: 53565

Sigma: H0637

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 943-73-7

Molecular Formula: $\text{C}_{10}\text{H}_{13}\text{NO}_2$

Molecular Weight: 179.218

Accurate Mass: 179.094629

Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%

Optical Rotation: $[\alpha]_{\text{D}} -29.6$ (20% HCl)

Other Data: Dec. *ca.* 305°

Aldrich: 29437-3

Fluka: 53570

Sigma: H0512

>>Variant: ($\pm$)-form

CAS Registry Number: 1012-05-1

Molecular Formula: $\text{C}_{10}\text{H}_{13}\text{NO}_2$

Molecular Weight: 179.218

Accurate Mass: 179.094629

Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%

Physical Description: Leaflets or needles (H_2O)

Melting Point: Mp 293-295 dec.°

Aldrich: 29435-7

Sigma: H0762

>>Derivative: Et ester

Molecular Formula: $\text{C}_{12}\text{H}_{17}\text{NO}_2$

Molecular Weight: 207.272

Accurate Mass: 207.125929

Percentage Composition: C 69.54%; H 8.27%; N 6.76%; O 15.44%

Boiling Point: Bp₁₆ 161-162°

>>Derivative: Et ester; hydrochloride

Melting Point: Mp 121-123 dec.°

References: