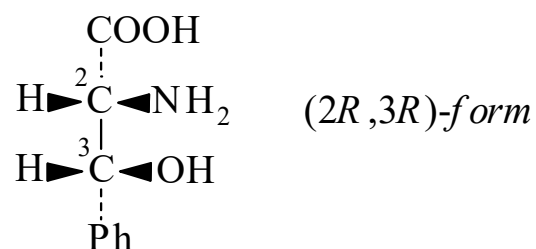




>>Entry Name: 2-Amino-3-hydroxy-3-phenylpropanoic acid

Synonym(s): β -Hydroxyphenylalanine, 9Cl. α -Amino- β -hydroxybenzenepropanoic acid. β -Phenylserine



CAS Registry Number: 1078-17-7

Related CAS Registry Numbers(s): 69-96-5 7687-36-7 39687-93-9 50897-27-3 64792-93-4 64951-86-6 68296-26-4 104320-72-1 116129-91-0 116129-92-1

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

Rare Chemicals Library: S91485-1

>>Variant: (2R,3R)-form

Synonym(s): (–)-*erythro*-form

CAS Registry Number: 7352-06-9

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

Physical Description: Described as dioxan adduct

Optical Rotation: $[\alpha]_{\text{D}}^{25} -66.5$ (c, 1.07 in 5M HCl)

>>Derivative: Me ester

Molecular Formula: $\text{C}_{10}\text{H}_{13}\text{NO}_3$

Molecular Weight: 195.218

Accurate Mass: 195.089544

Percentage Composition: C 61.53%; H 6.71%; N 7.17%; O 24.59%

Optical Rotation: $[\alpha]_{\text{D}} -33.8$ (c, 2 in MeOH)

>>Variant: (2S,3S)-form

Synonym(s): (+)-*erythro*-form

CAS Registry Number: 32946-42-2

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

Physical Description: Described as dioxan adduct

Melting Point: Mp 192 dec.° (unsharp)

Optical Rotation: $[\alpha]_{\text{D}}^{25} +66$ (c, 1.07 in 5M HCl)

>>Derivative: Me ester

Optical Rotation: $[\alpha]_{\text{D}} +34.1$ (c, 2 in MeOH)

>>Variant: (2R,3S)-form

Synonym(s): D-*threo*-form

CAS Registry Number: 109120-55-0

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

Melting Point: Mp 185-187 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{15} +48.6$

>>Derivative: Me ester

Optical Rotation: $[\alpha]$