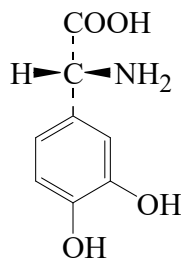




>>Entry Name: 2-Amino-2-(3,4-dihydroxyphenyl)acetic acid

Synonym(s): α -Amino-3,4-dihydroxybenzeneacetic acid, 9Cl. 2-(3,4-Dihydroxyphenyl)glycine, 8Cl



(*R*)-form

CAS Registry Number: 138-62-5

Related CAS Registry Numbers(s): 7284-41-5 54172-54-2 54172-60-0 56206-44-1 179811-84-8

Molecular Formula: C₈H₉NO₄

Molecular Weight: 183.163

Accurate Mass: 183.053159

Percentage Composition: C 52.46%; H 4.95%; N 7.65%; O 34.94%

>>Variant: (*R*)-form

Synonym(s): D-form

CAS Registry Number: 56144-53-7

Molecular Formula: C₈H₉NO₄

Molecular Weight: 183.163

Accurate Mass: 183.053159

Percentage Composition: C 52.46%; H 4.95%; N 7.65%; O 34.94%

Use/Importance: Used in synthesis of β -lactam antibiotics

Optical Rotation: $[\alpha]_D^{20} -149$ (c, 1 in 2*M* HCl)

Other: Koneka: B-9

>>Derivative: α -[3-Methoxy-1-methyl-3-oxo-1-propenyl], Na salt

Synonym(s): Dane salt

CAS Registry Number: 62135-30-2

Use/Importance: Protected form of amino acid used in synthesis

Melting Point: Mp 195° (dec.)

>>Derivative: 3-Me ether

CAS Registry Number: 54172-55-3

Molecular Formula: C₉H₁₁NO₄

Molecular Weight: 197.19

Accurate Mass: 197.068809

Percentage Composition: C 54.82%; H 5.62%; N 7.10%; O 32.45%

Optical Rotation: $[\alpha]_D^{25} -136.5$ (c, 1 in 1*M*HCl)

>>Derivative: *N*,3-Di-*tert*-Butyloxycarbonyl

CAS Registry Number: 56097-44-0

Molecular Formula: C₁₈H₂₅NO₈

Molecular Weight: 383.397

Accurate Mass: 383.158019

Percentage Composition: C 56.39%; H 6.57%; N 3.65%; O 33.38%

Optical Rotation: $[\alpha]_D^{22} -78$ (c, 1 in MeOH)

>>Variant: (*S*)-form

Synonym(s): L-form

CAS Registry Number: 74985-16-3

Molecular Formula: C₈H₉NO₄

Molecular Weight: 183.163

Accurate Mass: 183.053159

Percentage Composition: C 52.46%; H 4.95%; N 7.65%; O 34.94%

Optical Rotation: $[\alpha]_D^{20} +149$ (c, 1 in 2*M* HCl)