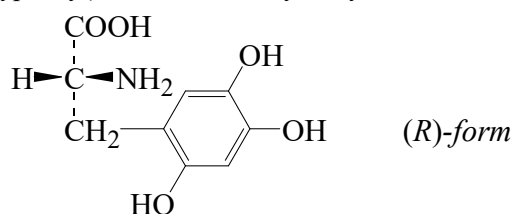




>>Entry Name: 2-Amino-3-(2,4,5-trihydroxyphenyl)propanoic acid

Synonym(s): 2,5-Dihydroxytyrosine, 9Cl. 3-(2,4,5-Trihydroxyphenyl)alanine, 8Cl. 6-Hydroxy-DOPA. TOPA



CAS Registry Number: 27244-64-0

Related CAS Registry Numbers(s): 21373-53-5 68463-64-9

Extra CAS Registry Numbers(s): 21373-30-8

Molecular Formula: C₉H₁₁NO₅

Molecular Weight: 213.19

Accurate Mass: 213.063724

Percentage Composition: C 50.71%; H 5.20%; N 6.57%; O 37.52%

Biological Source: Prod. by *Microspira tyrosinatica*

Use/Importance: Intermed. in biosynth. of melanin from Tyrosine. Neurotoxin

UV: [neutral] λ_{max} 291 () (None reported)

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 29979-41-7

Molecular Formula: C₉H₁₁NO₅

Molecular Weight: 213.19

Accurate Mass: 213.063724

Percentage Composition: C 50.71%; H 5.20%; N 6.57%; O 37.52%

Physical Description: Cryst.

Melting Point: Mp 240-241°

Optical Rotation: [α]_D²⁵+11.1 (c, 2.1 in MeOH/1M HCl 1:1)

>>Derivative: Tri-Me ether, N-benzoyl

CAS Registry Number: 29979-44-0

Molecular Formula: C₁₉H₂₁NO₆

Molecular Weight: 359.378

Accurate Mass: 359.136889

Percentage Composition: C 63.50%; H 5.89%; N 3.90%; O 26.71%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 205-206°

Optical Rotation: [α]_D²⁴+52.7 (c, 1 in MeOH)

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 21373-54-6

Molecular Formula: C₉H₁₁NO₅

Molecular Weight: 213.19

Accurate Mass: 213.063724

Percentage Composition: C 50.71%; H 5.20%; N 6.57%; O 37.52%

Biological Source: Prod. by *Microspira tyrosinatica*

Use/Importance: Intermed. in melanin biosynth.

Physical Description: Cryst.

Melting Point: Mp 239-240°. Mp 252-253° (dec.)

Optical Rotation: [α]_D²⁵-11.7 (c, 2.1 in MeOH/1M HCl 1:1)

>>Derivative: Tri-Me ether, N-benzoyl

CAS Registry Number: 29979-43-9

Physical Description: Cryst. (MeOH)

Melting Point: Mp 205-206°

Optical Rotation: [α]_D²⁴-53.1 (c, 1 in MeOH)