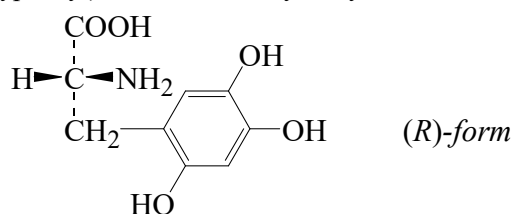




>>> **Name:** 2-Amino-3-(2,4,5-trihydroxyphenyl)propanoic acid

**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:** C<sub>9</sub>H<sub>11</sub>NO<sub>5</sub>

**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<sub>max</sub> 291 () (None reported)

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

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

**CAS Registry Number:** 29979-41-7

**Molecular Formula:** C<sub>9</sub>H<sub>11</sub>NO<sub>5</sub>

**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]<sub>D</sub><sup>25</sup>+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:** C<sub>19</sub>H<sub>21</sub>NO<sub>6</sub>

**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]<sub>D</sub><sup>24</sup>+52.7 (c, 1 in MeOH)

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

**Synonym(s):** L-form

**CAS Registry Number:** 21373-54-6

**Molecular Formula:** C<sub>9</sub>H<sub>11</sub>NO<sub>5</sub>

**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]<sub>D</sub><sup>25</sup>-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]<sub>D</sub><sup>24</sup>-53.1 (c, 1 in MeOH)