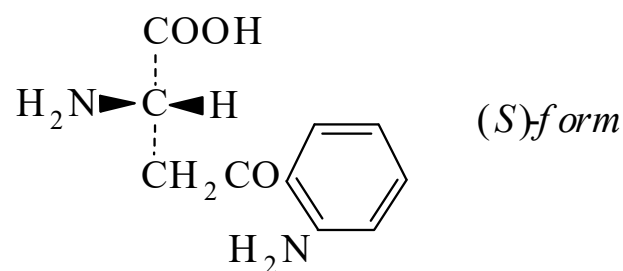




>>Entry Name: Kynurenine

Synonym(s):  $\alpha$ ,2-Diamino- $\gamma$ -oxobenzenebutanoic acid, 9Cl. 3-(2-Aminobenzoyl)alanine. 2-Amino-3-(2-aminobenzoyl)propanoic acid. 3-Anthraniloylalanine



CAS Registry Number: 343-65-7

Related CAS Registry Numbers(s): 32999-58-9

Molecular Formula:  $C_{10}H_{12}N_2O_3$

Molecular Weight: 208.216

Accurate Mass: 208.084793

Percentage Composition: C 57.69%; H 5.81%; N 13.45%; O 23.05%

Fluka: 61250

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 13441-51-5

Molecular Formula:  $C_{10}H_{12}N_2O_3$

Molecular Weight: 208.216

Accurate Mass: 208.084793

Percentage Composition: C 57.69%; H 5.81%; N 13.45%; O 23.05%

Biological Source: Occurs free in *Viscum album*

Melting Point: Mp 191°

Optical Rotation:  $[\alpha]_D^{25} +30$

Sigma: K2380

>>Derivative: Sulfate

Physical Description: Cryst. + 1H<sub>2</sub>O

Melting Point: Mp 178°

Optical Rotation:  $[\alpha]_D^{25} -9.5$

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 2922-83-0

Molecular Formula:  $C_{10}H_{12}N_2O_3$

Molecular Weight: 208.216

Accurate Mass: 208.084793

Percentage Composition: C 57.69%; H 5.81%; N 13.45%; O 23.05%

Biological Source: Occurs in the urine of various animals

Use/Importance: Intermed. in the metab. of Tryptophan and in biosynth. of ommochromes, e.g. Xanthommatin [BMV22-X](#) in crabs and insects

Physical Description: Cryst. (EtOH)

Melting Point: Mp 194° (191°)

Optical Rotation:  $[\alpha]_D^{25} -30.5$  (c, 1 in H<sub>2</sub>O)

Other Data: Forms a hydrate with 1/3 H<sub>2</sub>O, Mp 180-90° dec.

Sigma: K8625

>>Derivative: Sulfate

Physical Description: Needles + 1H<sub>2</sub>O (EtOH aq.)

Melting Point: Mp 179-180 dec.°

Optical Rotation:  $[\alpha]_D^{25} +9.7$  (c, 1 in H<sub>2</sub>O)

>>Derivative: N<sup>2</sup>-Formyl

Synonym(s):  $\alpha$ -Amino-2-(formylamino)- $\gamma$ -oxobenzenebutanoic acid, 9Cl. Formylkynurenine

CAS Registry Number: 3978-11-8

Extra CAS Registry Numbers(s): 1022-31-7