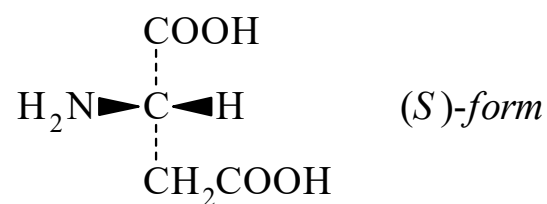




>>Entry Name: Aspartic acid, INN, USAN

ENTRY UNDER REVIEW

Synonym(s): Aminobutanedioic acid, 9CI. Aminosuccinic acid. Asparagic acid. Asparaginic acid. Asp



CAS Registry Number: 6899-03-2

Related CAS Registry Numbers(s): 1115-63-5 3792-50-5 14007-45-5 17090-93-6 17833-53-3

Molecular Formula: C₄H₇NO₄

Molecular Weight: 133.104

Accurate Mass: 133.037509

Percentage Composition: C 36.10%; H 5.30%; N 10.52%; O 48.08%

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 1783-96-6

Molecular Formula: C₄H₇NO₄

Molecular Weight: 133.104

Accurate Mass: 133.037509

Percentage Composition: C 36.10%; H 5.30%; N 10.52%; O 48.08%

Biological Source: Obt. from bacterial hydrolysates and from the red alga *Chondria armata*

Melting Point: Mp 251°

Optical Rotation: [α]_D −5.05 (c, 1 in H₂O). [α]_D −25.4 (c, 1 in 5M HCl)

Solubility: Sol. H₂O, HCl; insol. EtOH, Et₂O

Aldrich: 21909-6

Fluka: 11200

Sigma: A8881

>>Derivative: 1-Me ester

CAS Registry Number: 65414-78-0

Molecular Formula: C₅H₉NO₄

Molecular Weight: 147.13

Accurate Mass: 147.053159

Percentage Composition: C 40.82%; H 6.17%; N 9.52%; O 43.50%

Optical Rotation: [α]_D¹⁹ −10.5

>>Derivative: 4-Me ester; hydrochloride

CAS Registry Number: 22728-89-8

Melting Point: Mp 202°

Optical Rotation: [α]_D²² +12.2 (EtOH aq.)

>>Derivative: N-Benzoyl

CAS Registry Number: 4915-59-7

Molecular Formula: C₁₁H₁₁NO₅

Molecular Weight: 237.212

Percentage Composition: C 55.70%; H 4.67%; N 5.90%; O 33.72%

Melting Point: Mp 184-185°

Optical Rotation: [α]_D¹⁸ −37.4 (KOH)