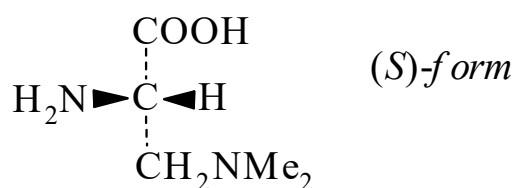




>>Entry Name: 2-Amino-3-(dimethylamino)propanoic acid

Synonym(s): 3-(Dimethylamino)alanine, 9Cl. 4-Azaleucine



CAS Registry Number: 4746-36-5

Molecular Formula: C₅H₁₂N₂O₂

Molecular Weight: 132.162

Accurate Mass: 132.089878

Percentage Composition: C 45.44%; H 9.15%; N 21.20%; O 24.21%

General Statement: Amino acid antibiotic

Solubility: BERDY SOL: Sol. H₂O; fairly sol. MeOH; poorly sol. butanol, hexane

UV: [neutral] λ_{max} (H₂O) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, scu) 80 mg/kg

>>Variant: (*S*)-form

Synonym(s): L-form

CAS Registry Number: 10138-99-5

Molecular Formula: C₅H₁₂N₂O₂

Molecular Weight: 132.162

Accurate Mass: 132.089878

Percentage Composition: C 45.44%; H 9.15%; N 21.20%; O 24.21%

Biological Source: Isol. from *Streptomyces neocaliberis* var. *nescaliberis*

Use/Importance: Possesses antibacterial props. Leucine antagonist

Physical Description: Cryst.

Optical Rotation: [α]_D²⁵ -17.8 (c, 1 in H₂O). [α]_D²⁵ +34 (c, 8 in 6*N* HCl)

>>Variant: (±)-form

CAS Registry Number: 28024-66-0

Molecular Formula: C₅H₁₂N₂O₂

Molecular Weight: 132.162

Accurate Mass: 132.089878

Percentage Composition: C 45.44%; H 9.15%; N 21.20%; O 24.21%

Use/Importance: Antimetabolite

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 34064-27-2

Extra CAS Registry Numbers(s): 102029-69-6

Physical Description: Cryst. (MeOH/Et₂O)

Melting Point: Mp 154-157 dec.°

References:

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