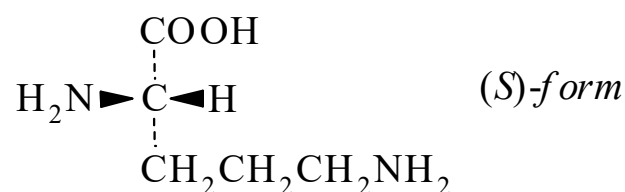




>>Entry Name: 2,5-Diaminopentanoic acid

Synonym(s): Ornithine, 9CI, INN. 5-Aminonorvaline. Orn



CAS Registry Number: 7006-33-9

Related CAS Registry Numbers(s): 15647-44-6

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%

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 348-66-3

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: Residue present in Gramicidins

>>Derivative: Hydrochloride

CAS Registry Number: 16682-12-5

Physical Description: Leaflets (EtOH aq.)

Melting Point: Mp 239-240 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{26} -11$ (c, 2 in H₂O). $[\alpha]_{\text{D}}^{25} -24.5$ (c, 0.5 in 6M HCl)

Aldrich: 22285-2

Fluka: 75480

Sigma: O5250

>>Derivative: N⁵-Ac

CAS Registry Number: 81397-94-6

Molecular Formula: C₇H₁₄N₂O₃

Molecular Weight: 174.199

Accurate Mass: 174.100443

Percentage Composition: C 48.26%; H 8.10%; N 16.08%; O 27.55%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 233-234 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -24.6$ (c, 1 in 5M HCl)

>>Derivative: N²,N⁵-Bis(benzyloxycarbonyl)

CAS Registry Number: 13594-49-5

Molecular Formula: C₂₁H₂₄N₂O₆

Molecular Weight: 400.43

Accurate Mass: 400.163438

Percentage Composition: C 62.99%; H 6.04%; N 7.00%; O 23.97%

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 112-113°