



>>Entry Name: *N*-Phenylalanylleucine

PhCH2CH(NH2)CONHCH(COOH)CH2CH(CH3)2

Molecular Formula: C₁₅H₂₂N₂O₃

Molecular Weight: 278.35

Accurate Mass: 278.163043

Percentage Composition: C 64.73%; H 7.97%; N 10.06%; O 17.24%

>>Variant: D-D-form

Molecular Formula: C₁₅H₂₂N₂O₃

Molecular Weight: 278.35

Accurate Mass: 278.163043

Percentage Composition: C 64.73%; H 7.97%; N 10.06%; O 17.24%

Physical Description: Needles (H₂O)

Melting Point: Mp 261-262 dec.°

>>Variant: D-L-form

CAS Registry Number: 3303-56-8

Molecular Formula: C₁₅H₂₂N₂O₃

Molecular Weight: 278.35

Accurate Mass: 278.163043

Percentage Composition: C 64.73%; H 7.97%; N 10.06%; O 17.24%

Physical Description: Bitter-tasting

Melting Point: Mp 249-251°

Optical Rotation: [α]_D²⁵ -98.7 (c, 0.66 in 0.1M HCl)

>>Variant: L-L-form

CAS Registry Number: 3303-55-7

Molecular Formula: C₁₅H₂₂N₂O₃

Molecular Weight: 278.35

Accurate Mass: 278.163043

Percentage Composition: C 64.73%; H 7.97%; N 10.06%; O 17.24%

Use/Importance: Bitter tasting

Physical Description: Cryst. (EtOH)

Melting Point: Mp 252-257°

Optical Rotation: [α]_D²² -20 (c, 0.6 in 1% NaHCO₃)

Sigma: P3876

>>Derivative: *N*-Benzyloxycarbonyl

Melting Point: Mp 142-143°

Optical Rotation: [α]_D²¹ -20 (c, 3.7 in MeOH)

>>Derivative: *N*-Benzyloxycarbonyl, Me ester

Molecular Formula: C₂₄H₃₀N₂O₅

Molecular Weight: 426.511

Accurate Mass: 426.215473

Percentage Composition: C 67.59%; H 7.09%; N 6.57%; O 18.76%

Melting Point: Mp 110-111°

Optical Rotation: [α]_D²³ -25 (c, 2.8 in MeOH)

>>Derivative: *N*-Benzyloxycarbonyl, Et ester

Molecular Formula: C₂₅H₃₂N₂O₅

Molecular Weight: 440.538

Accurate Mass: 440.231123

Percentage Composition: C 68.16%; H 7.32%; N 6.36%; O 18.16%

Melting Point: Mp 114-115°

References: