



>>Entry Name: Benzyloxycarbonylalanine

Synonym(s): *N*-[(Phenylmethoxy)carbonyl]alanine, 9Cl. Z-Alanine. Z-AlaOH

PhCH₂OOCNHCH(CH₃)COOH

Molecular Formula: C₁₁H₁₃NO₄

Molecular Weight: 223.228

Accurate Mass: 223.084459

Percentage Composition: C 59.19%; H 5.87%; N 6.27%; O 28.67%

>>Variant: D-form

CAS Registry Number: 26607-51-2

Molecular Formula: C₁₁H₁₃NO₄

Molecular Weight: 223.228

Accurate Mass: 223.084459

Percentage Composition: C 59.19%; H 5.87%; N 6.27%; O 28.67%

Physical Description: Needles (Et₂O/hexane)

Melting Point: Mp 75-76°

Optical Rotation: [α]_D²³+1.7 (c, 7.43 in CHCl₃)

>>Variant: L-form

CAS Registry Number: 1142-20-7

Molecular Formula: C₁₁H₁₃NO₄

Molecular Weight: 223.228

Accurate Mass: 223.084459

Percentage Composition: C 59.19%; H 5.87%; N 6.27%; O 28.67%

Melting Point: Mp 86-87°

Optical Rotation: [α]_D −14 (AcOH)

Aldrich: 15689-2

Fluka: 95850

Sigma: C1751

>>Derivative: Dicyclohexylamine salt

CAS Registry Number: 26607-52-3

Melting Point: Mp 180-181.5°

Optical Rotation: [α]_D +5 (c, 2.11 in EtOH)

>>Derivative: 4-Nitrophenyl ester

Synonym(s): Z-AlaONp

CAS Registry Number: 1168-87-2

Molecular Formula: C₁₇H₁₆N₂O₆

Molecular Weight: 344.323

Accurate Mass: 344.100838

Percentage Composition: C 59.30%; H 4.68%; N 8.14%; O 27.88%

Melting Point: Mp 79-79.5°

Optical Rotation: [α]_D²⁵ −38.1 (c, 1.4 in EtOAc)

Sigma: C4635

>>Derivative: 2,4,5-Trichlorophenyl ester

Synonym(s): Z-AlaOTcp

CAS Registry Number: 7536-54-1

Melting Point: Mp 104°

Optical Rotation: [α]_D −24 (c, 2 in DMF)