



>>Entry Name: *N*²-Benzyloxycarbonyllysine

Synonym(s): *N*-[(Phenylmethoxy)carbonyl]lysine, 9Cl. *N*²-Carboxylysine *N*²-benzyl ester, 8Cl. Z-LysOH



Molecular Formula: C₁₄H₂₀N₂O₄

Molecular Weight: 280.323

Accurate Mass: 280.142308

Percentage Composition: C 59.99%; H 7.19%; N 9.99%; O 22.83%

>>Variant: L-form

CAS Registry Number: 2212-75-1

Molecular Formula: C₁₄H₂₀N₂O₄

Molecular Weight: 280.323

Accurate Mass: 280.142308

Percentage Composition: C 59.99%; H 7.19%; N 9.99%; O 22.83%

Melting Point: Mp 235-237°

Optical Rotation: [α]_D −12.2 (c, 5.6 in 0.2*M* HCl). [α]_D²⁷ +13.8 (c, 1.66 in 6*M* HCl)

Aldrich: 35979-3

Fluka: 96830

Sigma: C7130

>>Derivative: Me ester

CAS Registry Number: 5591-93-5

Molecular Formula: C₁₅H₂₂N₂O₄

Molecular Weight: 294.35

Accurate Mass: 294.157958

Percentage Composition: C 61.21%; H 7.53%; N 9.52%; O 21.74%

Physical Description: Cryst. (as hydrochloride)

Melting Point: Mp 117-118° (hydrochloride)

Optical Rotation: [α]_D²⁷ +15.5 (c, 2.0 in H₂O) (hydrochloride)

>>Derivative: *N*⁶-*tert*-Butyloxycarbonyl

Synonym(s): *N*²-Benzyloxycarbonyl-*N*⁶-*tert*-butyloxycarbonyllysine

CAS Registry Number: 2389-60-8

Molecular Formula: C₁₉H₂₈N₂O₆

Molecular Weight: 380.44

Accurate Mass: 380.194738

Percentage Composition: C 59.99%; H 7.42%; N 7.36%; O 25.23%

Physical Description: Cryst. (petrol/Et₂O)

Melting Point: Mp 63-64°

Optical Rotation: [α]_D²⁶ −2.4 (c, 2 in MeOH)

>>Derivative: *N*⁶-*tert*-Butyloxycarbonyl, 4-nitrophenyl ester

Synonym(s): Z-Lys(BOC)ONp

CAS Registry Number: 2212-69-3

Melting Point: Mp 88-90°

Optical Rotation: [α]_D −16.5 (c, 1.15 in Me₂CO)

Sigma: B6251

>>Derivative: *N*⁶-*tert*-Butyloxycarbonyl, succinimido ester

Synonym(s): Z-Lys(BOC)OSu

CAS Registry Number: 3338-34-9

Melting Point: Mp 96-98°

Optical Rotation: [α]_D −15.9 (c, 3.5 in dioxan)

>>Derivative: *N*⁶-Benzyloxycarbonyl

Synonym(s): Z-Lys(Z)OH

CAS Registry Number: 405-39-0

Melting Point: Mp 80°

Optical Rotation: [α]_D −1.5 (c, 2 in 1*M* NaOH/MeOH)

Sigma: C3127