>>**Entry Name:** N^2-**Benzyloxycarbonyllysine**
Synonym(s): *N*-[(Phenylmethoxy)carbonyl]lysine, 9CI. N^2-Carboxylysine N^2-benzyl ester, 8CI. Z-LysOH

$PhCH_2OCONHCH(COOH)(CH_2)_3CH_2NH_2$

Molecular Formula: $C_{14}H_{20}N_2O_4$
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: $C_{14}H_{20}N_2O_4$
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: $[\alpha]_D$ –12.2 (c, 5.6 in 0.2*M* HCl). $[\alpha]_D^{27}$ +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: $C_{15}H_{22}N_2O_4$
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: $[\alpha]_D^{27}$ +15.5 (c, 2.0 in H_2O) (hydrochloride)

>>**Derivative:** N^6-*tert*-Butyloxycarbonyl
Synonym(s): N^2-Benzyloxycarbonyl-N^6-*tert*-butyloxycarbonyllysine

CAS Registry Number: 2389-60-8
Molecular Formula: $C_{19}H_{28}N_2O_6$
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/Et_2O)
Melting Point: Mp 63-64°
Optical Rotation: $[\alpha]_D^{26}$ –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: $[\alpha]_D$ –16.5 (c, 1.15 in Me_2CO)
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: $[\alpha]_D$ –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: $[\alpha]_D$ –1.5 (c, 2 in 1*M* NaOH/MeOH)
Sigma: C3127