



>>Entry Name: N^2,N^6 -Bis(*tert*-butyloxycarbonyl)lysine

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



Molecular Formula: C₁₆H₃₀N₂O₆

Molecular Weight: 346.423

Accurate Mass: 346.210388

Percentage Composition: C 55.47%; H 8.73%; N 8.09%; O 27.71%

>>Variant: L-form

CAS Registry Number: 2483-46-7

Molecular Formula: C₁₆H₃₀N₂O₆

Molecular Weight: 346.423

Accurate Mass: 346.210388

Percentage Composition: C 55.47%; H 8.73%; N 8.09%; O 27.71%

Use/Importance: Lysine deriv. employed in peptide synth.

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{20} +12$ (c, 0.01 in CHCl₃)

>>Derivative: Hydrazide

Molecular Formula: C₁₆H₃₂N₄O₅

Molecular Weight: 360.453

Accurate Mass: 360.237271

Percentage Composition: C 53.32%; H 8.95%; N 15.54%; O 22.19%

Melting Point: Mp 102-103°

Optical Rotation: $[\alpha]_D^{27} -7.27$ (c, 1.17 in MeOH)

>>Derivative: 4-Nitrophenyl ester

CAS Registry Number: 2592-19-0

Melting Point: Mp 127°

Optical Rotation: $[\alpha]_D -29.7$ (c, 1.06 in MeOH)

Rare Chemicals Library: S78765-5

>>Derivative: Succinimido ester

CAS Registry Number: 30189-36-7

Molecular Formula: C₂₀H₃₃N₃O₈

Molecular Weight: 443.496

Accurate Mass: 443.226767

Percentage Composition: C 54.17%; H 7.50%; N 9.47%; O 28.86%

Melting Point: Mp 92-96°

Optical Rotation: $[\alpha]_D -30.6$ (c, 2 in EtOH)

Sigma: B7019

References:

Hofmann, K. *et al.*, *J.A.C.S.*, 1965, **87**, 611, (*hydrazide, ester*)

Shimonishi, Y., *Bull. Chem. Soc. Jpn.*, 1970, **43**, 3251, (*ester*)

Org. Synth., 1985, **63**, 171, (*bibl*)

Pechar, M. *et al.*, *Coll. Czech. Chem. Comm.*, 1995, **60**, 1765-1780, (*synth*)