



Melting Point: Mp 146-148°

Optical Rotation: $[\alpha]_D^{18} -36.5$ (EtOH)

>> **Derivative:** *N*-Benzyloxycarbonyl

CAS Registry Number: 13122-91-3

Molecular Formula: C₂₆H₂₆N₂O₅

Molecular Weight: 446.502

Accurate Mass: 446.184173

Percentage Composition: C 69.94%; H 5.87%; N 6.27%; O 17.92%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 162-163°

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

CAS Registry Number: 4892-10-8

Molecular Formula: C₂₇H₂₈N₂O₅

Molecular Weight: 460.529

Accurate Mass: 460.199823

Percentage Composition: C 70.42%; H 6.13%; N 6.08%; O 17.37%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 148-149°

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

CAS Registry Number: 5276-63-1

Molecular Formula: C₂₈H₃₀N₂O₅

Molecular Weight: 474.555

Accurate Mass: 474.215473

Percentage Composition: C 70.87%; H 6.37%; N 5.90%; O 16.86%

Physical Description: Cryst.

Melting Point: Mp 140°

References:

Birkinshaw, J.H. *et al.*, *Biochem. J.*, 1962, **85**, 523-527, (*synth, derivs*)

Inouye, K. *et al.*, *Biochemistry*, 1966, **5**, 2473-2483, (*synth, derivs*)

Eisele, K. *et al.*, *Z. Physiol. Chem.*, 1975, **356**, 845-854, (*N-tert-butyloxycarbonyl*)

Tomiozo, C. *et al.*, *Can. J. Chem.*, 1976, **54**, 70-76, (*cd*)

Otagiri, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 90-96, (*synth, derivs*)