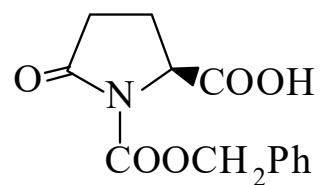




>>Entry Name: Benzyloxycarbonylpyroglutamic acid

Synonym(s): 1-(Phenylmethyl) 5-oxo-1,2-pyrrolidinedicarboxylate, 9Cl. Z-GlpOH



Molecular Formula: C₁₃H₁₃NO₅

Molecular Weight: 263.249

Accurate Mass: 263.079374

Percentage Composition: C 59.31%; H 4.98%; N 5.32%; O 30.39%

>>Variant: L-form

CAS Registry Number: 32159-21-0

Molecular Formula: C₁₃H₁₃NO₅

Molecular Weight: 263.249

Accurate Mass: 263.079374

Percentage Composition: C 59.31%; H 4.98%; N 5.32%; O 30.39%

Melting Point: Mp 134-135°

Optical Rotation: [α]_D -29.1 (c, 1.01 in MeOH)

Sigma: C5761

>>Derivative: Amide

Synonym(s): Z-GlpNH₂

Molecular Formula: C₁₃H₁₄N₂O₄

Molecular Weight: 262.265

Accurate Mass: 262.095358

Percentage Composition: C 59.54%; H 5.38%; N 10.68%; O 24.40%

Melting Point: Mp 157-158°

Optical Rotation: [α]_D +1.4 (c, 1.06 in EtOH)

>>Derivative: Hydrazide

Synonym(s): Z-GlpNHNH₂

Melting Point: Mp 188-190°

Optical Rotation: [α]_D -22.7 (c, 1.05 in 95% AcOH)

>>Derivative: 4-Nitrophenyl ester

Synonym(s): Z-GlpONp

CAS Registry Number: 40356-52-3

Melting Point: Mp 140-141°

Optical Rotation: [α]_D -50.3 (c, 1 in THF)

>>Derivative: Succinimido ester

Synonym(s): Z-GlpOSu

CAS Registry Number: 40291-26-7

Melting Point: Mp 131-133°

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

Synonym(s): Z-GlpOTcp

CAS Registry Number: 5910-46-3

Melting Point: Mp 148-149°

Optical Rotation: [α]_D -38.9 (c, 1 in DMF)

References:

Gibian, H. *et al.*, *Annalen*, 1961, **640**, 145, (*synth, nitrophenyl, amide*)

Klieger, E. *et al.*, *Annalen*, 1961, **649**, 183, (*synth, butyloxycarbonylhydrazide*)

Celis, M.E. *et al.*, *FEBS Lett.*, 1972, **27**, 327, (*trichlorophenyl*)

Yanaihara, N. *et al.*, *J. Med. Chem.*, 1973, **16**, 373, (*succinimido*)