



>>Entry Name: Benzyloxycarbonylglutamic acid

Synonym(s): *N*-[(Phenylmethoxy)carbonyl]glutamic acid, 9Cl. Z-Glutamic acid. Z-GluOH



Molecular Formula: C₁₃H₁₅NO₆

Molecular Weight: 281.265

Accurate Mass: 281.089939

Percentage Composition: C 55.51%; H 5.38%; N 4.98%; O 34.13%

>>Variant: L-form

CAS Registry Number: 1155-62-0

Molecular Formula: C₁₃H₁₅NO₆

Molecular Weight: 281.265

Accurate Mass: 281.089939

Percentage Composition: C 55.51%; H 5.38%; N 4.98%; O 34.13%

Melting Point: Mp 120-121°

Optical Rotation: [α]_D −7.9 (c, 10 in AcOH)

Aldrich: 85906-0

Fluka: 96120

Sigma: C6876

>>Derivative: 5-*tert*-Butyl ester

CAS Registry Number: 3886-08-6

Molecular Formula: C₁₇H₂₃NO₆

Molecular Weight: 337.372

Accurate Mass: 337.152539

Percentage Composition: C 60.52%; H 6.87%; N 4.15%; O 28.45%

Physical Description: Cryst.

Melting Point: Mp 80-82°

Optical Rotation: [α]_D²⁰ −9.4 (c, 1 in EtOH)

>>Derivative: 5-Benzyl ester

CAS Registry Number: 5680-86-4

Molecular Formula: C₂₀H₂₁NO₆

Molecular Weight: 371.389

Accurate Mass: 371.136889

Percentage Composition: C 64.68%; H 5.70%; N 3.77%; O 25.85%

Melting Point: Mp 75-76°

Optical Rotation: [α]_D −22.7 (c, 1.41 in 1M KHCO₃)

>>Derivative: 1-(4-Nitrophenyl), 5-Me ester

CAS Registry Number: 5672-80-0

Molecular Formula: C₂₀H₂₀N₂O₈

Molecular Weight: 416.387

Accurate Mass: 416.121968

Percentage Composition: C 57.69%; H 4.84%; N 6.73%; O 30.74%

Melting Point: Mp 107-108°

Optical Rotation: [α]_D −32.3 (c, 1 in 95% AcOH)

>>Derivative: 1-(4-Nitrophenyl), 5-*tert*-butyl ester

CAS Registry Number: 7670-08-8

Molecular Formula: C₂₃H₃₀N₂O₈

Molecular Weight: 462.499

Accurate Mass: 462.200218

Percentage Composition: C 59.73%; H 6.54%; N 6.06%; O 27.67%

Melting Point: Mp 60-61°

Optical Rotation: [α]_D −33.6 (c, 2 in MeOH)