



>>Entry Name: Benzyloxycarbonylserine

Synonym(s): *N*-[(Phenylmethoxy)carbonyl]serine, 9Cl. *N*-Carboxyserine *N*-benzyl ester, 8Cl. *Z*-SerOH

Extra CAS Registry Numbers(s): 2768-56-1 6081-61-4

PhCH2OOCNHCH(COOH)CH2OH

Molecular Formula: C₁₁H₁₃NO₅

Molecular Weight: 239.227

Accurate Mass: 239.079374

Percentage Composition: C 55.23%; H 5.48%; N 5.85%; O 33.44%

>>Variant: D-form

CAS Registry Number: 6081-61-4

Molecular Formula: C₁₁H₁₃NO₅

Molecular Weight: 239.227

Accurate Mass: 239.079374

Percentage Composition: C 55.23%; H 5.48%; N 5.85%; O 33.44%

Melting Point: Mp 115-119°

Optical Rotation: $[\alpha]_D^{26} -5.1$ (c, 4 in AcOH)

>>Variant: L-form

Synonym(s): (*S*)-form

CAS Registry Number: 1145-80-8

Molecular Formula: C₁₁H₁₃NO₅

Molecular Weight: 239.227

Accurate Mass: 239.079374

Percentage Composition: C 55.23%; H 5.48%; N 5.85%; O 33.44%

Melting Point: Mp 121°

Optical Rotation: $[\alpha]_D +5.6$ (c, 6 in AcOH)

Aldrich: 86070-0

Fluka: 97190

Sigma: C5252

>>Derivative: Me ester

CAS Registry Number: 1676-81-9

Molecular Formula: C₁₂H₁₅NO₅

Molecular Weight: 253.254

Accurate Mass: 253.095024

Percentage Composition: C 56.91%; H 5.97%; N 5.53%; O 31.59%

Physical Description: Oil

Boiling Point: Bp_{0.01} 170° (Kugelrohr)

Optical Rotation: $[\alpha]_D^{20} +7.4$ (c, 2 in CHCl₃)

>>Derivative: Benzyl ester

CAS Registry Number: 21209-51-8

Molecular Formula: C₁₈H₁₉NO₅

Molecular Weight: 329.352

Accurate Mass: 329.126324

Percentage Composition: C 65.64%; H 5.81%; N 4.25%; O 24.29%

Melting Point: Mp 81-82°

Optical Rotation: $[\alpha]_D^{25} -7.5$ (c, 3 in EtOH)

>>Derivative: 4-Nitrophenyl ester

Synonym(s): *Z*-SerONp

CAS Registry Number: 1676-91-1

Melting Point: Mp 116-118°

Optical Rotation: $[\alpha]_D^{24} -32$ (c, 1 in DMF + 1% AcOH)