>>**Derivative:** Pentachlorophenyl ester
Synonym(s): Z-SerOPcp

CAS Registry Number: 13673-57-9
Melting Point: Mp 191.5-192.5°
Optical Rotation: $[\alpha]_D$ –23.6 (c, 1 in DMF)

>>**Derivative:** *O-tert*-Butyl

CAS Registry Number: 1676-75-1
Molecular Formula: $C_{15}H_{21}NO_5$
Molecular Weight: 295.335
Accurate Mass: 295.141974
Percentage Composition: C 61.00%; H 7.17%; N 4.74%; O 27.09%
Physical Description: Cryst. (cyclohexane)
Melting Point: Mp 87-87.5°
Optical Rotation: $[\alpha]_D^{24}$+22.7 (c, 2 in EtOH)

>>**Derivative:** *O-tert*-Butyl, 4-nitrophenyl ester
Synonym(s): Z-Ser(Bu^t)ONp

CAS Registry Number: 5545-50-6
Melting Point: Mp 55-56°
Optical Rotation: $[\alpha]_D$ –21.2 (c, 1 in MeOH)

>>**Derivative:** *O-tert*-Butyl, succinimido ester
Synonym(s): Z-Ser(Bu^t)OSu

CAS Registry Number: 19460-97-0
Physical Description: Oil

>>**Derivative:** *O*-Benzyl, 4-nitrophenyl ester
Synonym(s): Z-Ser(Bzl)ONp

CAS Registry Number: 6464-81-9
Melting Point: Mp 45-47°
Optical Rotation: $[\alpha]_D$ –12.2 (c, 2 in DMF)

>>**Derivative:** β-Lactone

CAS Registry Number: 26054-60-4
Molecular Formula: $C_{11}H_{11}NO_4$
Molecular Weight: 221.212
Accurate Mass: 221.068809
Percentage Composition: C 59.73%; H 5.01%; N 6.33%; O 28.93%
Use/Importance: Used in the synth. of optically pure *N*-protected α-amino acids
Melting Point: Mp 133-134°
Optical Rotation: $[\alpha]_D^{22}$–26.5 (c, 1 in MeCN)

>>**Variant:** (±)-form

CAS Registry Number: 2768-56-1
Molecular Formula: $C_{11}H_{13}NO_5$
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 124-126°
Aldrich: C900-4
Sigma: C5127

References: