



>>Entry Name: Fluorenylmethylenoxycarbonylserine

Synonym(s): *N*-[(9*H*-Fluoren-9-ylmethoxy)carbonyl]serine, 9Cl. FmocSerOH

Molecular Formula: C₁₈H₁₇NO₅

Molecular Weight: 327.336

Accurate Mass: 327.110674

Percentage Composition: C 66.05%; H 5.23%; N 4.28%; O 24.44%

General Statement: Deriv. of 9-Fluorenyl methyl chloroformate [DMJ03-G](#)

>>Variant: L-form

CAS Registry Number: 73724-45-5

Molecular Formula: C₁₈H₁₇NO₅

Molecular Weight: 327.336

Accurate Mass: 327.110674

Percentage Composition: C 66.05%; H 5.23%; N 4.28%; O 24.44%

Melting Point: Mp 86-88°

Optical Rotation: [α]_D +14.9 (c, 1 in EtOAc)

Fluka: 47601

>>Derivative: Benzyl ester

Synonym(s): FmocSerOBzl

CAS Registry Number: 73724-46-6

Molecular Formula: C₂₅H₂₃NO₅

Molecular Weight: 417.46

Accurate Mass: 417.157624

Percentage Composition: C 71.93%; H 5.55%; N 3.36%; O 19.16%

Melting Point: Mp 97-98°

Optical Rotation: [α]_D +1.4 (c, 1 in EtOAc)

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

Synonym(s): FmocSer(Bu^t)OH

CAS Registry Number: 71989-33-8

Melting Point: Mp 126-129°

Optical Rotation: [α]_D +25.4 (c, 1 in EtOAc)

Fluka: 47619

Sigma: F1383

>>Derivative: *O*-*tert*-Butyl, benzyl ester

Synonym(s): FmocSer(Bu^t)OBzl

CAS Registry Number: 73724-47-7

Melting Point: Mp 70-71°

Optical Rotation: [α]_D -5.2 (c, 1 in EtOAc)

>>Derivative: *O*-*tert*-Butyl, 4-nitrophenyl ester

Synonym(s): FmocSer(Bu^t)ONp

CAS Registry Number: 71989-34-9

Physical Description: Amorph. solid

Melting Point: Mp 54-58°

Optical Rotation: [α]_D²² -29.7 (c, 1.2 in DMF + 1% AcOH)

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

CAS Registry Number: 130858-98-9

Molecular Formula: C₂₂H₂₄FNO₄

Molecular Weight: 385.434

Accurate Mass: 385.168937

Percentage Composition: C 68.56%; H 6.28%; F 4.93%; N 3.63%; O 16.60%

Physical Description: Cryst.

Melting Point: Mp 89-91°

Optical Rotation: [α]_D²⁶ +28.8 (c, 0.5 in EtOAc)

References: