



>>Entry Name: Fluorenylmethylenoxycarbonylphenylalanine

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

Molecular Formula: C₂₄H₂₁NO₄

Molecular Weight: 387.434

Accurate Mass: 387.147059

Percentage Composition: C 74.40%; H 5.46%; N 3.62%; O 16.52%

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

>>Variant: L-form

CAS Registry Number: 35661-40-6

Molecular Formula: C₂₄H₂₁NO₄

Molecular Weight: 387.434

Accurate Mass: 387.147059

Percentage Composition: C 74.40%; H 5.46%; N 3.62%; O 16.52%

Melting Point: Mp 181-183°

Optical Rotation: [α]_D -37.6 (c, 1 in DMF)

Aldrich: 33833-8

Fluka: 47635

Sigma: F0509

>>Derivative: 4-Nitrophenyl ester

Synonym(s): FmocPheONp

CAS Registry Number: 71989-30-5

Melting Point: Mp 207-209°

Optical Rotation: [α]_D²² -43 (c, 1.2 in DMF + 1% AcOH)

>>Derivative: Pentafluorophenyl ester

CAS Registry Number: 86060-92-6

Molecular Formula: C₃₀H₂₀F₅NO₄

Molecular Weight: 553.484

Accurate Mass: 553.131249

Percentage Composition: C 65.10%; H 3.64%; F 17.16%; N 2.53%; O 11.56%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 154-157°

Optical Rotation: [α]_D²⁰ -20.3 (c, 1 in CHCl₃)

>>Derivative: Piperidyl ester

Synonym(s): FmocPheOPip

CAS Registry Number: 35737-11-2

Melting Point: Mp 60-62 dec.°

Optical Rotation: [α]_D²⁸ -2.68 (c, 2.5 in EtOAc)

>>Derivative: Fluoride

CAS Registry Number: 130858-97-8

Molecular Formula: C₂₄H₂₀FNO₃

Molecular Weight: 389.425

Accurate Mass: 389.142722

Percentage Composition: C 74.02%; H 5.18%; F 4.88%; N 3.60%; O 12.33%

Biological Use/Importance: Used in peptide synthesis

Melting Point: Mp 118-120°

Optical Rotation: [α]_D²⁴ +35.5 (c, 1 in CH₂Cl₂)

>>Derivative: *N*-Me

Synonym(s): Fmoc(Me)PheOH

CAS Registry Number: 77128-73-5

Molecular Formula: C₂₅H₂₃NO₄

Molecular Weight: 401.461

Accurate Mass: 401.162709

Percentage Composition: C 74.80%; H 5.77%; N 3.49%; O 15.94%

Physical Description: Oil

Optical Rotation: [α]