



>>Entry Name: Fluorenylmethylenoxycarbonyltyrosine

Synonym(s): *N*-[(9*H*-Fluoren-9-ylmethoxy)carbonyl]tyrosine. FmocTyrOH

Related CAS Registry Numbers(s): 125043-03-0

Molecular Formula: C₂₄H₂₁NO₅

Molecular Weight: 403.434

Accurate Mass: 403.141974

Percentage Composition: C 71.45%; H 5.25%; N 3.47%; O 19.83%

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

>>Variant: L-form

Molecular Formula: C₂₄H₂₁NO₅

Molecular Weight: 403.434

Accurate Mass: 403.141974

Percentage Composition: C 71.45%; H 5.25%; N 3.47%; O 19.83%

>>Derivative: 4-Nitrophenyl ester

Synonym(s): FmocTyrONp

Melting Point: Mp 182-184°

Optical Rotation: [α]_D -20 (c, 1.5 in CHCl₃ + 1% AcOH)

>>Derivative: O-Me

Synonym(s): FmocTyr(Me)OH

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 161-162°

Optical Rotation: [α]_D²² -28.5 (c, 1 in DMF)

>>Derivative: O-tert-Butyl

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

CAS Registry Number: 71989-38-3

Melting Point: Mp 150-151°

Optical Rotation: [α]_D -27.6 (c, 1 in DMF)

Aldrich: 45934-8

Fluka: 47623

Sigma: F1633

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

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

CAS Registry Number: 71989-39-4

Melting Point: Mp 90-91°

Optical Rotation: [α]_D -21.1 (c, 1.2 in DMF + 1% AcOH)

>>Derivative: O-tert-Butyl, fluoride

CAS Registry Number: 130859-04-0

Molecular Formula: C₂₈H₂₈FNO₄

Molecular Weight: 461.532

Accurate Mass: 461.200237

Percentage Composition: C 72.87%; H 6.11%; F 4.12%; N 3.03%; O 13.87%

Use/Importance: Used in peptide synthesis

Physical Description: Cryst.

Melting Point: Mp 97-99°

Optical Rotation: [α]_D²⁵ +33 (c, 0.5 in CH₂Cl₂)