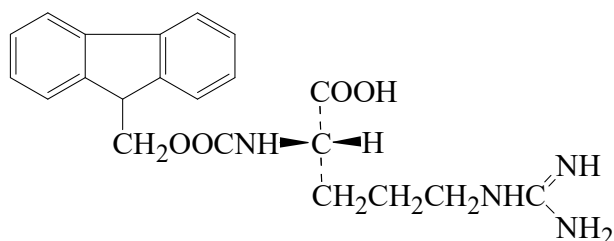




>>Entry Name: Fluorenylmethyloxycarbonylarginine

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



Molecular Formula: C₂₁H₂₄N₄O₄

Molecular Weight: 396.445

Accurate Mass: 396.179756

Percentage Composition: C 63.62%; H 6.10%; N 14.13%; O 16.14%

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

>>Variant: L-form

Molecular Formula: C₂₁H₂₄N₄O₄

Molecular Weight: 396.445

Accurate Mass: 396.179756

Percentage Composition: C 63.62%; H 6.10%; N 14.13%; O 16.14%

>>Derivative: *N*⁰-*tert*-Butyloxycarbonyl

Synonym(s): FmocArg(BOC)OH

CAS Registry Number: 73724-42-2

Molecular Formula: C₂₆H₃₂N₄O₆

Molecular Weight: 496.562

Accurate Mass: 496.232186

Percentage Composition: C 62.89%; H 6.50%; N 11.28%; O 19.33%

Melting Point: Mp 170-171°

Optical Rotation: [α]_D -11.5 (c, 1 in DMF)

>>Derivative: *N*⁰-(4-Methoxy-2,3,6-trimethylbenzenesulfonyl)

Synonym(s): FmocArg(Mtr)OH

CAS Registry Number: 98930-01-9

Molecular Formula: C₃₁H₃₆N₄O₇S

Molecular Weight: 608.714

Accurate Mass: 608.230471

Percentage Composition: C 61.17%; H 5.96%; N 9.20%; O 18.40%; S 5.27%

Use/Importance: Protected deriv. used for solid-phase peptide coupling

References:

Chang, C.-D. *et al.*, *Int. J. Pept. Protein Res.*, 1980, **15**, 59-66, (*tert*-butyloxycarbonyl)