>>**Entry Name: Fluorenylmethylenoxycarbonylaspartic acid**
Synonym(s): *N*-[(9*H*-Fluoren-9-ylmethoxy)carbonyl]aspartic acid. FmocAspOH

Molecular Formula: $C_{19}H_{17}NO_6$
Molecular Weight: 355.346
Accurate Mass: 355.105589
Percentage Composition: C 64.22%; H 4.82%; N 3.94%; O 27.01%
General Statement: Deriv. of 9-Fluorenyl methyl chloroformate DMJ03-G

>>**Variant:** L-form

Molecular Formula: $C_{19}H_{17}NO_6$
Molecular Weight: 355.346
Accurate Mass: 355.105589
Percentage Composition: C 64.22%; H 4.82%; N 3.94%; O 27.01%

>>**Derivative:** 4-*tert*-Butyl ester
Synonym(s): FmocAsp(Bu^t)OH

CAS Registry Number: 71989-14-5
Melting Point: Mp 148-149°
Optical Rotation: $[\alpha]_D$ +9.1 (c, 1 in DMF)
Fluka: 47618
Sigma: F9132

>>**Derivative:** 4-*tert*-Butyl ester, 1-(4-nitrophenyl) ester
Synonym(s): FmocAsp(Bu^t)ONp

CAS Registry Number: 71989-15-6
Physical Description: Amorph. solid
Melting Point: Mp 45-50°
Optical Rotation: $[\alpha]_D$ –34.2 (c, 1.2 in DMF + 1% AcOH)

>>**Derivative:** 4-Benzyl ester, 1-(2,4,5-trichlorophenyl) ester
Synonym(s): FmocAsp(Bzl)OTcP

CAS Registry Number: 71359-85-8
Melting Point: Mp 99-101°

>>**Derivative:** Fluoride, 4-*tert*-butyl ester

CAS Registry Number: 130859-01-7
Molecular Formula: $C_{23}H_{24}FNO_5$
Molecular Weight: 413.445
Accurate Mass: 413.163852
Percentage Composition: C 66.82%; H 5.85%; F 4.60%; N 3.39%; O 19.35%
Use/Importance: Used in peptide synthesis
Melting Point: Mp 74-75°
Optical Rotation: $[\alpha]_D^{23}$ +4 (c, 0.5 in EtOAc)

References:

Bodanszky, M. *et al.*, *J.O.C.*, 1979, **44**, 3596; 1980, **45**, 72
Chang, C.-D. *et al.*, *Int. J. Pept. Protein Res.*, 1980, **15**, 59
Carpino, L.A. *et al.*, *J.A.C.S.*, 1990, **112**, 9651-9652, *(fluoride tert-butyl ester)*

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