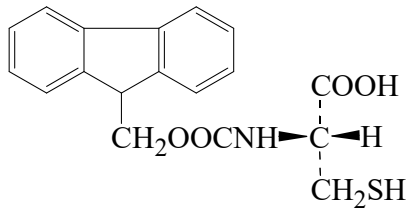
>>**Entry Name: Fluorenylmethylenoxycarbonylcysteine**
Synonym(s): *N*-[(9*H*-Fluoren-9-ylmethoxy)carbonyl]cysteine. FmocCysOH



Related CAS Registry Numbers(s): 103213-32-7 109434-23-3

Molecular Formula: $C_{18}H_{17}NO_4S$
Molecular Weight: 343.403
Accurate Mass: 343.087829
Percentage Composition: C 62.96%; H 4.99%; N 4.08%; O 18.64%; S 9.34%
General Statement: Deriv. of 9-Fluorenyl methyl chloroformate DMJ03-G

>>**Variant:** L-form

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Molecular Weight: 343.403
Accurate Mass: 343.087829
Percentage Composition: C 62.96%; H 4.99%; N 4.08%; O 18.64%; S 9.34%

>>**Derivative:** *S*-*tert*-Butyl
Synonym(s): FmocCys(Bu^t)OH

CAS Registry Number: 67436-13-9
Melting Point: Mp 135-136°
Optical Rotation: $[\alpha]_D$ –23.2 (c, 1 in DMF)
Sigma: F1258

>>**Derivative:** *S*-*tert*-Butylthio
Synonym(s): FmocCys(SBu^t)OH

CAS Registry Number: 73724-43-3
Melting Point: Mp 74-76°
Optical Rotation: $[\alpha]_D$ –84.6 (c, 1 in EtOAc)
Fluka: 47631

>>**Derivative:** *S*-Benzyl
Synonym(s): FmocCys(Bzl)OH

CAS Registry Number: 53298-33-2
Molecular Formula: $C_{25}H_{23}NO_4S$
Molecular Weight: 433.527
Accurate Mass: 433.134779
Percentage Composition: C 69.26%; H 5.35%; N 3.23%; O 14.76%; S 7.40%
Melting Point: Mp 127-128°
Optical Rotation: $[\alpha]_D^{20}$ –30 (c, 2 in DMF + 1% AcOH)

>>**Derivative:** *S*-Benzyl, 4-nitrophenyl ester
Synonym(s): FmocCys(Bzl)ONp

Melting Point: Mp 118-119°
Optical Rotation: $[\alpha]_D^{20}$ –48 (c, 1.2 in DMF + 1% AcOH)

>>**Derivative:** *S*-(Triphenylmethyl)
Synonym(s): FmocCys(Trt)OH

CAS Registry Number: 103213-32-7
Molecular Formula: $C_{37}H_{31}NO_4S$
Molecular Weight: 585.722
Accurate Mass: 585.197379
Percentage Composition: C 75.87%; H 5.33%; N 2.39%; O 10.93%; S 5.47%
Use/Importance: Used for solid-phase peptide synthesis
Other Data: Synth. not well documented

References: