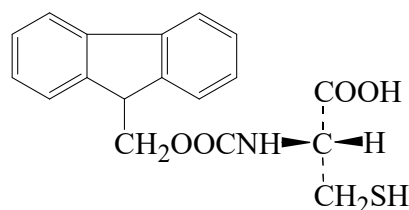




>>Entry Name: Fluorenylmethylenoxycarbonylcysteine

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



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

Molecular Formula: C₁₈H₁₇NO₄S

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

Molecular Formula: C₁₈H₁₇NO₄S

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: [α]_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: [α]_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: C₂₅H₂₃NO₄S

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: [α]_D²⁰ -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: [α]_D²⁰ -48 (c, 1.2 in DMF + 1% AcOH)

>>Derivative: *S*-(Triphenylmethyl)

Synonym(s): FmocCys(Trt)OH

CAS Registry Number: 103213-32-7

Molecular Formula: C₃₇H₃₁NO₄S

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: