>>**Entry Name: Benzyloxycarbonylcysteine**
Synonym(s): *N*-[(Phenylmethoxy)carbonyl]cysteine. Z-Cysteine. Z-CysOH

$PhCH_2OOCNHCH(COOH)CH_2SH$

Molecular Formula: $C_{11}H_{13}NO_4S$
Molecular Weight: 255.294
Accurate Mass: 255.056529
Percentage Composition: C 51.75%; H 5.13%; N 5.49%; O 25.07%; S 12.56%

>>**Variant:** L-form

CAS Registry Number: 53907-29-2
Molecular Formula: $C_{11}H_{13}NO_4S$
Molecular Weight: 255.294
Accurate Mass: 255.056529
Percentage Composition: C 51.75%; H 5.13%; N 5.49%; O 25.07%; S 12.56%
Melting Point: Mp 163-165°
Optical Rotation: $[\alpha]_D$ –134 (DMF)

>>**Derivative:** *S*-Acetamidomethyl
Synonym(s): Z-Cys(Acm)OH

CAS Registry Number: 54784-68-8
Physical Description: Oil

>>**Derivative:** *S*-Acetamidomethyl, succinimido ester
Synonym(s): Z-Cys(Acm)OSu

CAS Registry Number: 38004-20-5
Melting Point: Mp 152-154°

>>**Derivative:** *S*-Benzyl, dicyclohexylamine salt
Synonym(s): Z-Cys(Bzl)OH.Dcha

CAS Registry Number: 3257-18-9
Melting Point: Mp 138-139°
Optical Rotation: $[\alpha]_D$ –3.9 (c, 2.01 in EtOH)
Aldrich: 12101-0
Sigma: C5876

>>**Derivative:** *S*-Benzyl, hydrazide
Synonym(s): Z-Cys(Bzl)$NHNH_2$

CAS Registry Number: 24164-46-3
Molecular Formula: $C_{18}H_{21}N_3O_3S$
Molecular Weight: 359.448
Accurate Mass: 359.130362
Percentage Composition: C 60.15%; H 5.89%; N 11.69%; O 13.35%; S 8.92%
Melting Point: Mp 133-135°
Optical Rotation: $[\alpha]_D$ –14.3 (c, 1 in EtOH)

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

CAS Registry Number: 3401-37-4
Melting Point: Mp 93-94°
Optical Rotation: $[\alpha]_D$ –43 (c, 2 in DMF)
Sigma: C6001

>>**Derivative:** *S*-Benzyl, succinimido ester
Synonym(s): Z-Cys(Bzl)OSu

CAS Registry Number: 3401-57-8
Melting Point: Mp 90-91°
Optical Rotation: $[\alpha]_D$ –58.5 (c, 1.8 in dioxan)