>>**Entry Name: Benzyloxycarbonylcystine**
Synonym(s): *N*,*N*'-Bis[(Phenylmethoxy)carbonyl]cystine, 9CI. Z-Cystine. $(Z\text{-}CysOH)_2$

$PhCH_2OOCNHCH(COOH)CH_2SSCH_2CH(COOH)NHCOOCH_2Ph$

Molecular Formula: $C_{22}H_{24}N_2O_8S_2$
Molecular Weight: 508.572
Accurate Mass: 508.097408
Percentage Composition: C 51.96%; H 4.76%; N 5.51%; O 25.17%; S 12.61%

>>**Variant:** L-form

CAS Registry Number: 6968-11-2
Molecular Formula: $C_{22}H_{24}N_2O_8S_2$
Molecular Weight: 508.572
Accurate Mass: 508.097408
Percentage Composition: C 51.96%; H 4.76%; N 5.51%; O 25.17%; S 12.61%
Melting Point: Mp 119-120°
Optical Rotation: $[\alpha]_D$ –51.6 (c, 1 in DMF)
Fluka: 96080

>>**Derivative:** Dicyclohexylamine salt
Synonym(s): $(Z\text{-}CysOH.Dcha)_2$

CAS Registry Number: 38595-81-2
Melting Point: Mp 190-191°
Optical Rotation: $[\alpha]_D$ –51.8 (c, 1 in DMF)

>>**Derivative:** Dihydrazide
Synonym(s): $(Z\text{-}CysNHNH_2)_2$

Molecular Formula: $C_{22}H_{28}N_6O_6S_2$
Molecular Weight: 536.632
Accurate Mass: 536.151174
Percentage Composition: C 49.24%; H 5.26%; N 15.66%; O 17.89%; S 11.95%
Melting Point: Mp 175-176°

>>**Derivative:** Bispentachlorophenyl ester
Synonym(s): $(Z\text{-}CysOPcp)_2$

CAS Registry Number: 13673-50-2
Melting Point: Mp 215-217°
Optical Rotation: $[\alpha]_D$ –55.6 (c, 0.63 in $CHCl_3$)

>>**Derivative:** Disuccinimido ester
Synonym(s): $(Z\text{-}CysOSu)_2$

Melting Point: Mp 112-113°

References:

King, L.C. *et al.*, *J.A.C.S.*, 1952, **74**, 5499, *(synth)*
Zervas, L. *et al.*, *J.A.C.S.*, 1959, **81**, 1729, *(hydrazide)*
Klieger, E. *et al.*, *Annalen*, 1961, **640**, 157, *(synth)*
Kovacs, J. *et al.*, *J.O.C.*, 1967, **32**, 3696, *(pentachlorophenyl)*
Gorlenko, V.A. *et al.*, *J. Gen. Chem. USSR (Engl. Transl.)*, 1970, **40**, 1623, *(succinimido)*