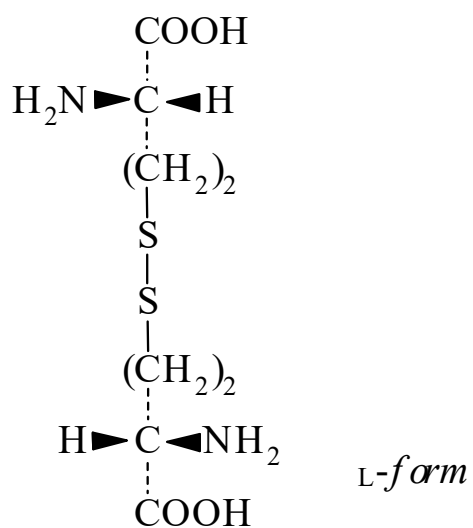




>>Entry Name: Homocystine

Synonym(s): 4,4'-Dithiobis[2-aminobutanoic acid], 9CI



CAS Registry Number: 462-10-2

Molecular Formula: $\text{C}_8\text{H}_{16}\text{N}_2\text{O}_4\text{S}_2$

Molecular Weight: 268.357

Accurate Mass: 268.055148

Percentage Composition: C 35.81%; H 6.01%; N 10.44%; O 23.85%; S 23.90%

Rare Chemicals Library: S56418-4

>>Variant: (*R,R*)-form

Synonym(s): D-form

CAS Registry Number: 6027-15-2

Molecular Formula: $\text{C}_8\text{H}_{16}\text{N}_2\text{O}_4\text{S}_2$

Molecular Weight: 268.357

Accurate Mass: 268.055148

Percentage Composition: C 35.81%; H 6.01%; N 10.44%; O 23.85%; S 23.90%

Melting Point: Mp 281-284 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{26} - 77$ (1M HCl). $[\alpha]_{\text{D}}^{21} - 16$ (H_2O)

Sigma: H5134

>>Variant: (*S,S*)-form

Synonym(s): L-form

CAS Registry Number: 626-72-2

Molecular Formula: $\text{C}_8\text{H}_{16}\text{N}_2\text{O}_4\text{S}_2$

Molecular Weight: 268.357

Accurate Mass: 268.055148

Percentage Composition: C 35.81%; H 6.01%; N 10.44%; O 23.85%; S 23.90%

Melting Point: Mp 281-284 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{26} + 77$ (c, 1 in 1M HCl). $[\alpha]_{\text{D}}^{21} + 16$ (H_2O)

Fluka: 53540

Sigma: H6010

>>Derivative: *N,N'*-Di-Ac, di-Me ester

Molecular Formula: $\text{C}_{14}\text{H}_{24}\text{N}_2\text{O}_6\text{S}_2$

Molecular Weight: 380.485

Accurate Mass: 380.107578

Percentage Composition: C 44.19%; H 6.36%; N 7.36%; O 25.23%; S 16.86%

Physical Description: Needles (EtOAc)

Melting Point: Mp 105-106°