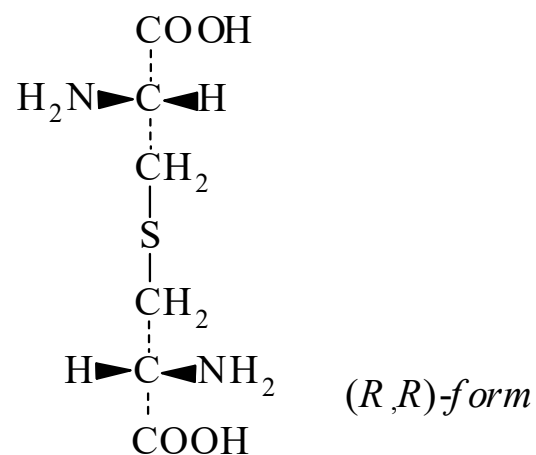




>>Entry Name: Lanthionine

Synonym(s): *S*-(2-Amino-2-carboxyethyl)cysteine, 9Cl. β,β' -Diamino- β,β' -dicarboxydiethyl sulfide



CAS Registry Number: 496-98-0

Extra CAS Registry Numbers(s): 3183-08-2

Molecular Formula: $C_6H_{12}N_2O_4S$

Molecular Weight: 208.238

Accurate Mass: 208.051778

Percentage Composition: C 34.61%; H 5.81%; N 13.45%; O 30.73%; S 15.40%

Biological Source: Present in normal and pathological brain tissue

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

Synonym(s): L-form

CAS Registry Number: 922-55-4

Molecular Formula: $C_6H_{12}N_2O_4S$

Molecular Weight: 208.238

Accurate Mass: 208.051778

Percentage Composition: C 34.61%; H 5.81%; N 13.45%; O 30.73%; S 15.40%

Biological Source: Isol. from pupae of silkworm, *Bombyx mori*

Physical Description: Hexagonal plates

Optical Rotation: $[\alpha]_D^{22} +8.6$ (c, 5 in 2.4*M* NaOH)

Other Data: Dec. at 293-5° (darkening from 245°)

Aldrich: L50-5

Sigma: L6256

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

Synonym(s): D-form

Molecular Formula: $C_6H_{12}N_2O_4S$

Molecular Weight: 208.238

Accurate Mass: 208.051778

Percentage Composition: C 34.61%; H 5.81%; N 13.45%; O 30.73%; S 15.40%

Optical Rotation: $[\alpha]_D^{21} -8$ (c, 5 in 2.4*M* NaOH)

Other Data: Dec. at 293-5°

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

Synonym(s): ($\pm$)-form

Molecular Formula: $C_6H_{12}N_2O_4S$

Molecular Weight: 208.238

Accurate Mass: 208.051778

Percentage Composition: C 34.61%; H 5.81%; N 13.45%; O 30.73%; S 15.40%

Other Data: Dec. at 286-92°

>>Variant: *(RS,SR)*-form

Synonym(s): *meso*-form

CAS Registry Number: 922-56-5