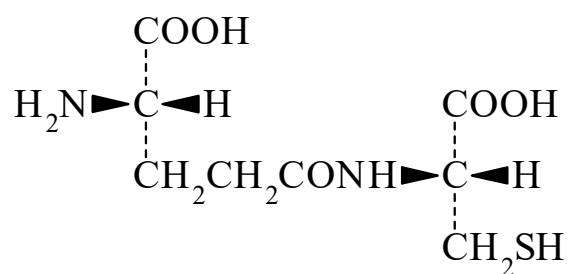




>>Entry Name: *N*- γ -Glutamylcysteine
ENTRY UNDER REVIEW



Related CAS Registry Numbers(s): 33514-37-3 56328-22-4

Molecular Formula: C₈H₁₄N₂O₅S

Molecular Weight: 250.275

Accurate Mass: 250.062343

Percentage Composition: C 38.39%; H 5.64%; N 11.19%; O 31.96%; S 12.81%

>>Variant: L-L-form

CAS Registry Number: 636-58-8

Molecular Formula: C₈H₁₄N₂O₅S

Molecular Weight: 250.275

Accurate Mass: 250.062343

Percentage Composition: C 38.39%; H 5.64%; N 11.19%; O 31.96%; S 12.81%

Physical Description: Prisms (EtOH)

Melting Point: Mp 164-166°

Optical Rotation: [α]_D²⁸ +12.4 (c, 1.69 in H₂O)

Sigma: G5021

>>Derivative: S-Me

Synonym(s): γ -Glutamyl-S-methylcysteine

Molecular Formula: C₉H₁₆N₂O₅S

Molecular Weight: 264.302

Accurate Mass: 264.077993

Percentage Composition: C 40.90%; H 6.10%; N 10.60%; O 30.27%; S 12.13%

Biological Source: Constit. of many edible vegetable species

Physical Description: Cryst.

Melting Point: Mp 107-109°

Optical Rotation: [α]_D²³ -20.5 (c, 2.22 in H₂O)

>>Derivative: S-Me, S-oxide

Synonym(s): γ -Glutamyl-S-methylcysteine sulfoxide

Molecular Formula: C₉H₁₆N₂O₆S

Molecular Weight: 280.301

Accurate Mass: 280.072908

Percentage Composition: C 38.57%; H 5.75%; N 9.99%; O 34.25%; S 11.44%

Biological Source: Present in garlic (*Allium sativum*)

>>Derivative: S-Vinyl

Synonym(s): γ -Glutamyl-S-ethenylcysteine. γ -Glutamyl-S-vinylcysteine

Molecular Formula: C₁₀H₁₆N₂O₅S

Molecular Weight: 276.313

Accurate Mass: 276.077993

Percentage Composition: C 43.47%; H 5.84%; N 10.14%; O 28.95%; S 11.60%

Optical Rotation: [α]_D²³ -5 (c, 2 in H₂O)

UV: [neutral] $\lambda_{\max}$ 222 (log ϵ 3.74) (H₂O)