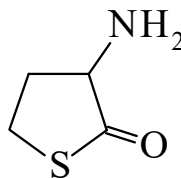




>>Entry Name: 3-Aminodihydro-2(3H)-thiophenone, 9CI

Synonym(s): 2-Amino-4-mercaptobutanoic acid thiolactone



CAS Registry Number: 10593-85-8

Molecular Formula: C₄H₇NOS

Molecular Weight: 117.171

Accurate Mass: 117.024834

Percentage Composition: C 41.00%; H 6.02%; N 11.95%; O 13.65%; S 27.37%

>>Variant: (±)-form

Molecular Formula: C₄H₇NOS

Molecular Weight: 117.171

Accurate Mass: 117.024834

Percentage Composition: C 41.00%; H 6.02%; N 11.95%; O 13.65%; S 27.37%

>>Derivative: Hydrochloride

CAS Registry Number: 6038-19-3

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 200-201°

Aldrich: H1580-2

Fluka: 53530

Sigma: H0376

>>Derivative: N-Ac

Synonym(s): N-(Tetrahydro-2-oxo-3-thienyl)acetamide, 9CI, 8CI. 2-Acetamido-4-mercaptobutyric acid γ-thiolactone. α-Acetamido-γ-thiobutyrolactone. α-N-Acetylhomocysteinethiolactone. **Citolone**, INN. Citolase. Mucorex. Reducdyn. Sitilon. Thioxidren. Bo 714

CAS Registry Number: 17896-21-8

Extra CAS Registry Numbers(s): 1195-16-0

Molecular Formula: C₆H₉NO₂S

Molecular Weight: 159.209

Accurate Mass: 159.035399

Percentage Composition: C 45.27%; H 5.70%; N 8.80%; O 20.10%; S 20.14%

Use/Importance: Photographic antifogging agent, thiolating agent, used for insolubilising antibodies and to treat hepatic disorders

Physical Description: Needles (toluene)

Melting Point: Mp 111.5-112.5°

Solubility: BERDY SOL: Sol. MeOH, CHCl₃

Aldrich: A1660-2

Sigma: A9375

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