



>>Entry Name: 2-(2-Aminoethyl)-2-thiopseudourea, 8Cl

Synonym(s): 2-Aminoethyl carbamamidothioate, 9Cl. AET

CAS Registry Number: 151-16-6

$\text{H}_2\text{NCH}_2\text{CH}_2\text{SC}(\text{NH}_2)=\text{NH}$

Molecular Formula: $\text{C}_3\text{H}_9\text{N}_3\text{S}$

Molecular Weight: 119.19

Accurate Mass: 119.051717

Percentage Composition: C 30.23%; H 7.61%; N 35.25%; S 26.90%

Use/Importance: Radioprotective agent

>>Derivative: Hydrobromide (1:2)

CAS Registry Number: 56-10-0

Melting Point: Mp 194-195°

Other Data: Slowly cyclises in cryst. from MeOH to 2-Amino-4(5*H*)-thiazolone CVH35-H

Hazard & Toxicity: LD₅₀ (rat, ipr) 288 mg/kg. LD₅₀ (mus, orl) 815 mg/kg

Aldrich: A5460-1

Sigma: A5879

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 816C, (*ir*)

Doherty, D.G. *et al.*, *J.A.C.S.*, 1957, **79**, 5667, (*synth*)

Hino, T. *et al.*, *Chem. Pharm. Bull.*, 1966, **14**, 1193, (*synth*)

Kollman, G. *et al.*, *Radiat. Res.*, 1966, **27**, 475, (*use*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, AJY250