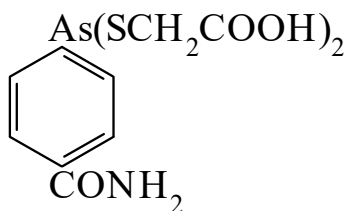




>>Entry Name: Arsenamide

Synonym(s): 2,2'-[[[4-(Aminocarbonyl)phenyl]arsinidene]bis[thio]]bisacetic acid, 9Cl. *p*-[Bis(carboxymethylmercapto)arsino]benzamide. Thiacetarsamide. Arsphenamide. Caparside. Caparsolate. Mercaptoacetic acid, *p*-carbamoyldithiobenzearsonite



CAS Registry Number: 531-72-6

Related CAS Registry Numbers(s): 7681-85-8 14433-82-0

Molecular Formula: C₁₁H₁₂AsNO₅S₂

Molecular Weight: 377.273

Accurate Mass: 376.937283

Percentage Composition: C 35.02%; H 3.21%; As 19.86%; N 3.71%; O 21.20%; S 17.00%

Source/Synthesis: Synth. from 4-carbamidophenylarsonous acid and mercaptoacetic acid

Use/Importance: Anthelmintic for vet. use

Physical Description: Cryst. (H₂O)

Melting Point: Mp 168-169°. Mp 158-162°

Solubility: Insol. cold H₂O; spar. sol. EtOH, MeOH; v. sol. warm solvs.

pKa Value: pK_a 4

Other Data: Also used as Na salt (Thiacetarsamide sodium, INN)

References:

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Maren, T.H., *J.A.C.S.*, 1946, **68**, 1864, (*synth*)

Otto, G.F. *et al.*, *Am. J. Hyg.*, 1950, **51**, 353; 385, (*pharmacol*)

Chatterjee, R.K. *et al.*, *Br. J. Pharmacol.*, 1969, **35**, 339, (*use*)

McCarrol, N.E. *et al.*, *Environ. Mutagen.*, 1981, **3**, 429; *CA*, **95**, 162879g, (*tox*)

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