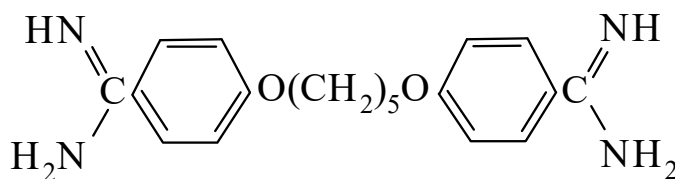




>>Entry Name: Pentamidine, BAN, INN

Synonym(s): 4,4'-[1,5-Pentanediy]bis(oxy)]bisbenzenecarboximidamide, 9Cl. 4,4'-(Pentamethylenedioxy)dibenzamidine, 8Cl



CAS Registry Number: 100-33-4

Molecular Formula: C₁₉H₂₄N₄O₂

Molecular Weight: 340.424

Accurate Mass: 340.189926

Percentage Composition: C 67.04%; H 7.11%; N 16.46%; O 9.40%

Use/Importance: Antiprotozoal agent, now also used in treatment of rare pneumonias associated with AIDS

Physical Description: Plates (H₂O)

Melting Point: Mp 186 dec.°

Calculated Log P Data: Log P 2.31 (calc)

Hazard & Toxicity: Liver, kidney, pancreas and other effects when used parenterally. LD₅₀ (mus, ipr) 50 mg/kg

>>Derivative: Hydrochloride (1:2)

Physical Description: Needles (HCl aq.)

Melting Point: Mp 233-234 dec.°

>>Derivative: 2-Hydroxyethanesulfonate

Synonym(s): Pentamidine isethionate. Diamidine. Lomidine. Pentam 300. M and B 800. RP 2512. NSC 620107

CAS Registry Number: 140-64-7

Physical Description: Hygroscopic cryst. with sl. butyric odour

Melting Point: Mp 180°

Solubility: Sol. H₂O, glycerol

Aldrich: 43984-3

Sigma: P0547

References:

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Williamson, J. *et al.*, *Biochem. Pharmacol.*, 1975, **24**, 147, (*pharmacol*)

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Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, DBL800; DBM000