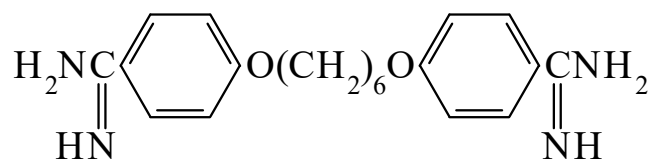




>>Entry Name: Hexamidine, BAN, INN

Synonym(s): 4,4'-[1,6-Hexanediylbis(oxy)]bis[benzenecarboximidamide], 9Cl. 4,4'-(Hexamethylenedioxy)dibenzamidine, 8Cl. 4,4'-Diamidino- α,ζ -diphenoxyhexane. 1,4-Bis(4-amidinophenoxy)hexane



CAS Registry Number: 3811-75-4

Molecular Formula: $C_{20}H_{26}N_4O_2$

Molecular Weight: 354.451

Accurate Mass: 354.205576

Percentage Composition: C 67.77%; H 7.39%; N 15.81%; O 9.03%

Use/Importance: Antiseptic, disinfectant; inhibitor of thrombin, trypsin and kallikrenin

Calculated Log P Data: Log P 2.84 (calc)

Hazard & Toxicity: Can cause allergic contact dermatitis

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 50357-46-5

Physical Description: Prisms

Melting Point: Mp 246-247 dec. $^{\circ}$

>>Derivative: Bis(2-hydroxyethanesulfonate) salt

Synonym(s): Desomedine. Hexomedine. Jabodine. Ophtamedine. 2535 RP. Many other names

CAS Registry Number: 659-40-5

References:

Ashley, J.N. *et al.*, *J.C.S.*, 1942, 103, (*synth, pharmacol*)

Geratz, J.D. *et al.*, *J. Med. Chem.*, 1973, **16**, 970, (*pharmacol*)

Dooms-Goossens, A. *et al.*, *Contact Dermatitis*, 1989, **21**, 270, (*tox*)

Tidwell, R.R. *et al.*, *J. Med. Chem.*, 1990, **33**, 1252, (*synth, sar*)

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 797

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., Akademie-Verlag, 1994, 7926, (*synonyms*)