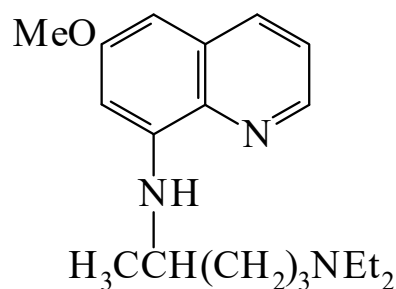




>>Entry Name: Pamaquine, INN

Synonym(s): *N,N'*-Diethyl-*N*⁴-(6-methoxy-8-quinoliny)-1,4-pentanediamine, 9Cl. 8-[[4-(Diethylamino)-1-methylbutyl]amino]-7-methoxyquinoline, 8Cl. Gametocid. Many other names



CAS Registry Number: 491-92-9

Molecular Formula: C₁₉H₂₉N₃O

Molecular Weight: 315.458

Accurate Mass: 315.231062

Percentage Composition: C 72.34%; H 9.27%; N 13.32%; O 5.07%

Use/Importance: Antimalarial drug, no longer in extensive use

Calculated Log P Data: Log P 4.2 (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 68 mg/kg

>>Variant: (±)-form

Molecular Formula: C₁₉H₂₉N₃O

Molecular Weight: 315.458

Accurate Mass: 315.231062

Percentage Composition: C 72.34%; H 9.27%; N 13.32%; O 5.07%

Physical Description: Oil

Boiling Point: Bp_{0.2} 185-187°

pKa Value: pK_{a2} 3.48; pK_{a3} -1.3 (NH)

Hazard & Toxicity: Caused blindness in exp. studies following oral administration

>>Derivative: Embonate (1:1)

CAS Registry Number: 635-05-2

Physical Description: Yellow or yellow-orange powder

Rare Chemicals Library: S50951-5

References:

Elderfield, R.G. *et al.*, *J.A.C.S.*, 1946, **68**, 1516, (*synth*)

Udall, V., *Proc. R. Soc. Med.*, 1972, **65**, 197, (*tox*)

Hufford, C.D. *et al.*, *J. Het. Chem.*, 1983, **20**, 273, (*props*)

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 5480, (*synonyms*)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 403

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, RHZ000