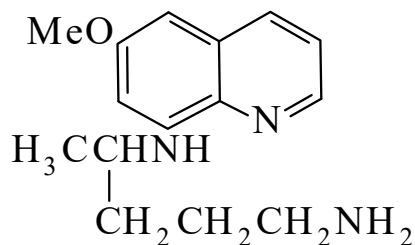




>>Entry Name: Primaquine, BAN, INN

Synonym(s): *N*⁴-(6-Methoxy-8-quinolinyl)-1,4-pentanediamine, 9Cl. 8-(4-Amino-1-methylbutylamino)-6-methoxyquinoline, 8Cl. Avlon. Neo-Quipenyl. Primachim. SN 13272



CAS Registry Number: 90-34-6

Molecular Formula: C₁₅H₂₁N₃O

Molecular Weight: 259.35

Accurate Mass: 259.168462

Percentage Composition: C 69.47%; H 8.16%; N 16.20%; O 6.17%

Use/Importance: Antimalarial drug. Used for detn. of Cr(VI) and V(III) (gives purple colour in conc. H₂SO₄)

Calculated Log P Data: Log P 2.59 (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 100 mg/kg

>>Variant: (±)-form

Molecular Formula: C₁₅H₂₁N₃O

Molecular Weight: 259.35

Accurate Mass: 259.168462

Percentage Composition: C 69.47%; H 8.16%; N 16.20%; O 6.17%

Physical Description: Viscous liq.

Boiling Point: Bp_{0.5} 175-179°

pKa Value: pK_{a1} 10.39; pK_{a2} 3.2; pK_{a3} 1—2 (aniline N, H₂O)

Other Data: Treatment with Primaquine is subject to high levels of parasite resistance

>>Derivative: Phosphate (1:2)

Synonym(s): Primaquine phosphate, USAN

CAS Registry Number: 63-45-6

Physical Description: Yellow cryst. (EtOH aq.)

Melting Point: Mp 197-198°

Solubility: Mod. sol. H₂O

Hazard & Toxicity: LD₅₀ (mus, orl) 68 mg/kg. Exp. teratogenic effects

Aldrich: 16039-3

Fluka: 81650

Sigma: P9504

>>Derivative: Oxalate (1:1)

Physical Description: Yellow cryst. (EtOH aq.)

Melting Point: Mp 182.5-185°

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