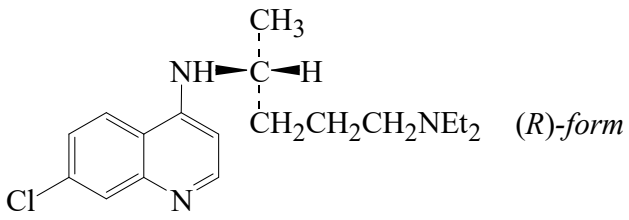
>>**Entry Name: Chloroquine,** BAN, INN
Synonym(s): N^4-(7-Chloro-4-quinolinyl)-N^1,N^1-diethyl-1,4-pentanediamine, 9CI. 7-Chloro-4-(4-diethylamino-1-methylbutylamino)quinoline



CAS Registry Number: 54-05-7

Molecular Formula: $C_{18}H_{26}ClN_3$
Molecular Weight: 319.876
Accurate Mass: 319.181524
Percentage Composition: C 67.59%; H 8.19%; Cl 11.08%; N 13.14%
Use/Importance: Antimalarial, antiamoebic drug
Other Data: Component of Aablaquine
Hazard & Toxicity: Human reprod. and teratogenic effects. Common adverse effects incl. headaches, gastrointestinal disturbances, and skin eruptions, but high doses are cardiotoxic and cause severe visual effects. LD_{50} (rat, orl) 330 mg/kg. Lethal human dose approx. 30 mg/kg

>>**Variant:** (*R*)-form

CAS Registry Number: 58175-87-4
Molecular Formula: $C_{18}H_{26}ClN_3$
Molecular Weight: 319.876
Accurate Mass: 319.181524
Percentage Composition: C 67.59%; H 8.19%; Cl 11.08%; N 13.14%
Physical Description: Cryst. (hexane)
Melting Point: Mp 65-67°
Optical Rotation: $[\alpha]_D^{20}$–108.2 (c,1 in EtOH) (-86.2)

>>**Variant:** (*S*)-form

CAS Registry Number: 58175-86-3
Molecular Formula: $C_{18}H_{26}ClN_3$
Molecular Weight: 319.876
Accurate Mass: 319.181524
Percentage Composition: C 67.59%; H 8.19%; Cl 11.08%; N 13.14%
Melting Point: Mp 68-69°
Optical Rotation: $[\alpha]_D^{22}$+108.2 (c, 1 in EtOH)
Calculated Log P Data: Log P 4.92 (calc)

>>**Derivative:** Phosphate (1:2)

CAS Registry Number: 69698-55-1
Melting Point: Mp 202°
Optical Rotation: $[\alpha]_D^{22}$+86.9 (c, 2.1 in H_2O)

>>**Variant:** (±)-form

CAS Registry Number: 56598-66-4
Molecular Formula: $C_{18}H_{26}ClN_3$
Molecular Weight: 319.876
Accurate Mass: 319.181524
Percentage Composition: C 67.59%; H 8.19%; Cl 11.08%; N 13.14%
Physical Description: Cryst. (C_6H_6/petrol)
Melting Point: Mp 87-88°
Boiling Point: $Bp_{0.2}$ 212-214°
Calculated Log P Data: Log P 4.92 (calc)