



>>Entry Name: **9-Aminoacridine**

Synonym(s): 9-Acridinamine, 9Cl. *ms*-Aminoacridine. **Aminacrine**, BAN. Aminoacridine, INN

CAS Registry Number: 90-45-9

Related CAS Registry Numbers(s): 52417-22-8

Molecular Formula: C₁₃H₁₀N₂

Molecular Weight: 194.235

Accurate Mass: 194.084398

Percentage Composition: C 80.39%; H 5.19%; N 14.42%

Use/Importance: Potassium channel (K_V and SK_{Ca}) blocker. A major antibacterial agent. DNA intercalator

Physical Description: Yellow cryst. (EtOH or Me₂CO)

Melting Point: Mp 233° (anhyd. 240°)

pKa Value: pK_{a1} 9.95 (20°)

Calculated Log P Data: Log P 3.09 (calc)

Hazard & Toxicity: LD₅₀ (mus, scu) 80 mg/kg. Mutagenic props.

Rare Chemicals Library: S51721-6

Sigma: A0510

>>Derivative: Hydrochloride

Synonym(s): Aminacrine hydrochloride, USAN. Acramidine. Acramine. Acriflex. Aminopt. Flavacrin. Microban. Minocrin. Monacrin. Mycosert. Quench. NSC 7571

CAS Registry Number: 134-50-9

Use/Importance: Antibacterial, antiinfective agent

Physical Description: Cryst. + 1H₂O

Other Data: Loses H₂O at 150°

Hazard & Toxicity: LD₅₀ (mus, orl) 78 mg/kg

>>Derivative: 9-*N*-Ac

CAS Registry Number: 23043-52-9

Molecular Formula: C₁₅H₁₂N₂O

Molecular Weight: 236.273

Accurate Mass: 236.094963

Percentage Composition: C 76.25%; H 5.12%; N 11.86%; O 6.77%

Melting Point: Mp 268-269°