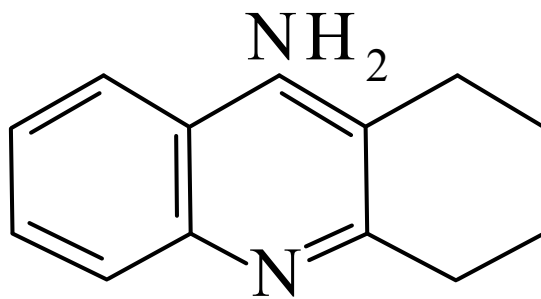




>>Entry Name: 9-Amino-1,2,3,4-tetrahydroacridine, 8Cl

Synonym(s): 1,2,3,4-Tetrahydro-9-acridinamine, 9Cl. **Tacrine**, BAN, INN. Cognex. Romotal. Tenakrin. T.H.A.



CAS Registry Number: 321-64-2

Molecular Formula: C₁₃H₁₄N₂

Molecular Weight: 198.267

Accurate Mass: 198.115698

Percentage Composition: C 78.75%; H 7.12%; N 14.13%

Use/Importance: Analeptic agent used to promote mental alertness; reported to be useful in treatment of Alzheimer's disease. Anticholinesterase activity. Protects neuronal acetylcholinesterase from inhibitory effects of organophosphorus compds. *in vivo*

Physical Description: Octahedra (EtOH aq.)

Development Status: Launched 1993 (US)

Melting Point: Mp 183-184°

Calculated Log P Data: Log P 3.27 (calc)

Hazard & Toxicity: LD₅₀ (mus, scu) 25 mg/kg. LD₅₀ (rat, orl) 103 mg/kg

Rare Chemicals Library: S45667-5

>>Derivative: Hydrochloride

Synonym(s): Tacrine hydrochloride, USAN

CAS Registry Number: 1684-40-8

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 284-287° (hydrate)

Aldrich: 44738-2

Sigma: A3773

>>Derivative: N-Butyl

Synonym(s): Bucricaine, INN

CAS Registry Number: 316-15-4

Molecular Formula: C₁₇H₂₂N₂

Molecular Weight: 254.374

Accurate Mass: 254.178298

Percentage Composition: C 80.27%; H 8.72%; N 11.01%

Use/Importance: CNS stimulant, anticholinesterase

Melting Point: Mp 65°

Calculated Log P Data: Log P 5.66 (calc)

References: