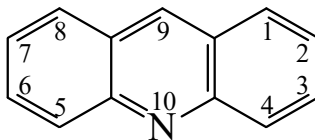




>>Entry Name: Acridine

Synonym(s): Dibenzo[*b,e*]pyridine. 9-Azaanthracene. Benzo[*b*]quinoline. 10-Azaanthracene



CAS Registry Number: 260-94-6

Related CAS Registry Numbers(s): 22559-71-3

Extra CAS Registry Numbers(s): 39327-16-7

Molecular Formula: C₁₃H₉N

Molecular Weight: 179.221

Accurate Mass: 179.073499

Percentage Composition: C 87.12%; H 5.06%; N 7.82%

Source/Synthesis: Obt. from coal tar

Use/Importance: Parent compd. of many important dyes, alkaloids and antibacterials. Used for fltn. separation of TeBr₆²⁽⁻⁾; also for gravimetric detn. of Os

Physical Description: Needles or prisms

Melting Point: Mp 111° (subl. >100°) (sealed tube)

Boiling Point: Bp 360° (345-346°)

Solubility: Sol. EtOH, Et₂O; sl. sol. H₂O

pKa Value: pK_a 5.6 (H₂O)

Other Data: Solutions show blue fluor. Five cryst. modifications known, all melting at *ca.* 106-111°. Triboluminescent

Hazard & Toxicity: Skin, eye and mucous membrane irritant. LD₅₀ (mus, scu) 400 mg/kg

Aldrich: A2360-9

Fluka: 1640

Sigma: A9640

>>Derivative: Hydrochloride

CAS Registry Number: 17784-47-3

Melting Point: Mp 220.5-222°

>>Derivative: *N*-Me

Synonym(s): 10-Methylacridinium(1+)

CAS Registry Number: 13367-81-2

Extra CAS Registry Numbers(s): 948-43-6

Molecular Formula: C₁₄H₁₂N⁽⁺⁾

Molecular Weight: 194.256

Accurate Mass: 194.096974

Percentage Composition: C 86.56%; H 6.23%; N 7.21%

Physical Description: Red triclinic cryst. (as iodide)

>>Derivative: *N*-Oxide

CAS Registry Number: 10399-73-2

Molecular Formula: C₁₃H₉NO

Molecular Weight: 195.22

Accurate Mass: 195.068414

Percentage Composition: C 79.98%; H 4.65%; N 7.17%; O 8.20%

Physical Description: Yellow needles (petrol)

Melting Point: Mp 169°

References: