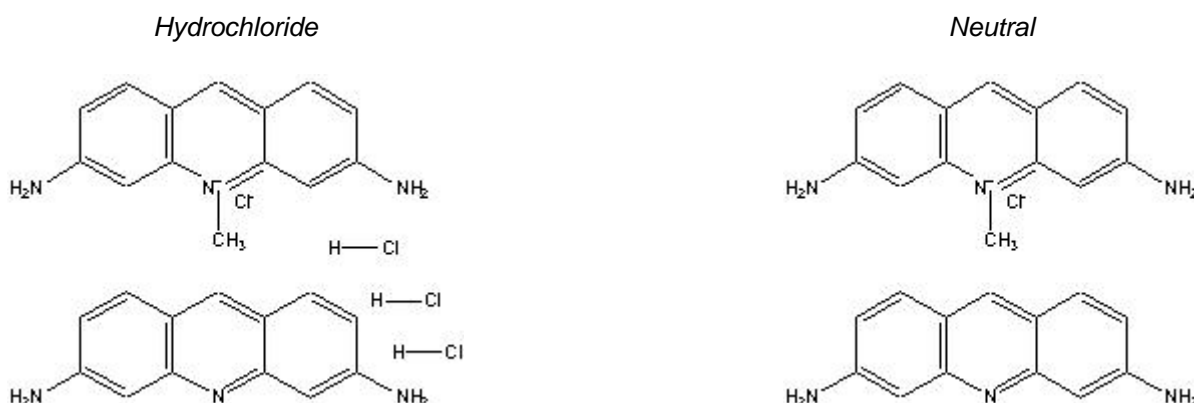


TECHNICAL INFORMATION

Catalog Number: 190675, 190676

Acriflavine

Structure:



Molecular Formula:

Hydrochloride

C₂₇H₂₅ClN₆·3HCl

Neutral

C₂₇H₂₅ClN₆

Molecular Weight:

578.37

469.02

CAS

8063-24-9

8048-52-0

Physical Description: Orange to red-orange crystalline powder

Synonyms: Eufлавин; Trypaflavine; Neutroflavine; Gonacrine

Solubility:

Hydrochloride:

Soluble in water (1 mg/ml - clear, dark orange solution)

Neutral:

Soluble in water (1 g/3 ml); very slightly soluble in ethanol; nearly insoluble in ether, chloroform or fixed oils.¹ Aqueous solutions are reddish-orange and fluoresce on dilution.¹

Description: A mixture of the 3,6-diamino-10-methylacridinium chloride and 3,6-diaminoacridine (approximately an 8 to 1 mixture respectively). Acts as an intercalating dye² and also reported to inhibit mitochondriogenesis.³ An antiseptic.¹ Has been used in applications for dual fluorescence analysis of cellular DNA and protein simultaneously.⁴

Availability:

| Catalog Number | Description | Size |
|----------------|---------------------------|-----------------------|
| 190676 | Acriflavine Neutral | 10 g 25 g 100 g |
| 190675 | Acriflavine Hydrochloride | 10 g 25 g 100 g |

References:

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- Biochem. Biophys. Res. Commun., v. 44, 396 (1971).
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- *Arch. Biochem. Biophys.*, v. **148**, 425 (1972).
- *Conn's Biological Stains*, **9th Ed.**, Lillie, R.D. (ed.), Williams and Wilkins: Baltimore, p. 355 (1977).