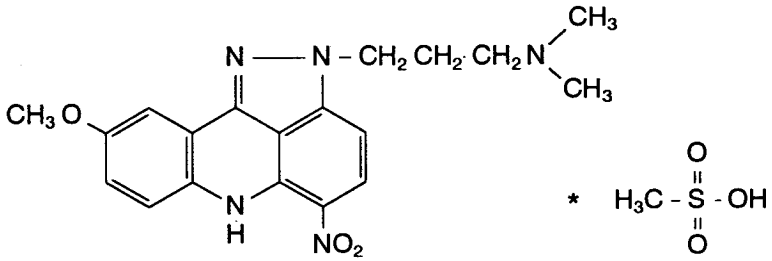
PYRAZOLOLOACRIDINE

NSC - 366140



Chemical Name:
9-Methoxy-*N*,*N*-dimethyl-5-nitropyrazolo[3,4,5-*kl*]acridine-2(6*H*)-propanamine, monomethanesulfonate

CAS Registry Number: 99009-20-8

Molecular Formula: $C_{20}H_{25}N_5O_6S$ **M.W.:** 463.5

Approximate Solubility:	(mg/mL)
Water	> 10.12
Buffer, pH 4	> 9.99
Buffer, pH 9	< 0.67
Ethanol	> 0.66
Dimethylacetamide	5.05 - 10.10
DMSO	> 10.18
Chloroform	< 0.68
Ethyl acetate	< 0.67
t-BuOH	< 0.67

Stability:

Bulk:
Test samples stored for 3 months at 25 °C and 50 °C under light and dark conditions showed no degradation (HPLC).

Solution:
Aqueous solutions (≈ 2 mg/mL) showed no degradation after 48 hr at 25 °C.

Ultraviolet Absorption:

λ_{max}	ε
223 ± 2 nm	39,197 - 39,537
254 ± 2 nm	11,638 - 11,878
280 ± 2 nm	8,932 - 9,004
311 ± 2 nm	12,950 - 13,000
352 ± 2 nm	6,290 - 6,415
368 ± 2 nm	7, 286 - 7,389
467 ± 2 nm	12,460 - 13,721

High Performance Liquid Chromatography:

Column:	RCM Nova-Pak
Mobile Phase:	30% CH_3CN/70% 0.1 M ammonium acetate (pH 4.4).
Flow Rate:	2.0 mL/min
Detection:	UV at 254 nm

Sample Preparation: ≈ 0.4 mg/mL NSC - 366140 and 0.1 mg/mL Internal Standard in methanol.

Internal Standard: Methyl *p*-anisate

Retention Volume: 15.1 mL (NSC - 366140)
30.3 mL (I.S.)