



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

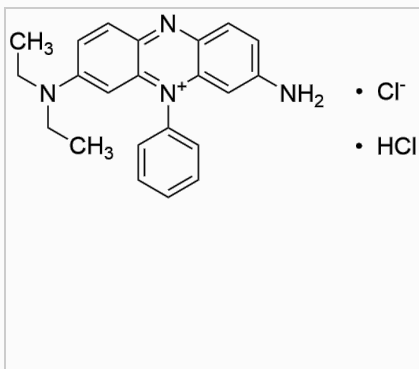
Catalogue Number: M236755

CAS Number: 4569-86-2

Product: Methylene Violet 3RAX (~90%)

Synonym: 3-Amino-7-(diethylamino)-5-phenylphenazin-5-ium Chloride; C.I. 50206; Diethylsafranin; 3-Amino-7-diethylamino-5-phenylphenazinium Chloride;

Structure:



Molecular Formula:

C₂₂H₂₃N₄ • Cl

Molecular weight:

343.45 + (35.45)

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 22-SBL-14-1

Purity: ~90%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

| Tests: | Specifications: | Results: |
|--------------------|-------------------------------|--------------------------------|
| Appearance | Very Dark Blue to Black Solid | Black Solid |
| FT-IR | Conforms to Structure | Conforms |
| UV Absorbance | Report Result | 201 nm, 273 nm, 557 nm |
| Chloride Content | Report Result | 16.2% |
| NMR | Conforms to Structure | Conforms |
| MS | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 58.14, %H: 5.13, %N: 12.30 |

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

| Reviewed By | Reviewed By | C of A Approved By | Test Date | Retest Date |
|-------------|---------------|--------------------|-----------|-------------|
| Henry Tieu | Toni Rantanen | Chanell Chu | 3/29/2022 | 3/27/2026 |