



CERTIFICATE OF ANALYSIS

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1. Identification

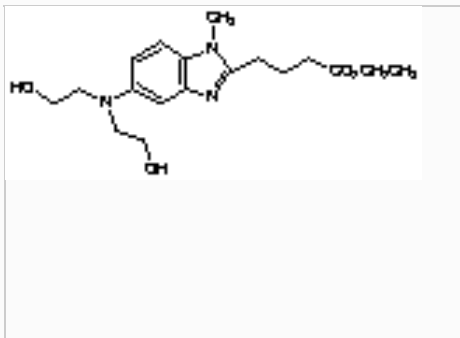
Catalogue Number: M294190

CAS Number: 3543-74-6

Product: [1-Methyl-5-bis(2'-hydroxyethyl)aminobenzimidazolyl-2]butanoic Acid Ethyl Ester

Synonym: 5-[Bis(2-hydroxyethyl)amino]-1-methyl-1H-benzimidazole-2-butanoic Acid Ethyl Ester;

Structure:



Molecular Formula:

C₁₈H₂₇N₃O₄

Molecular weight:

349.42

Source of Product:

N/A

Solubility:

Chloroform (Slightly)

Lot Number: 8-RTU-114-1

Purity: 97%

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 | White to Brown Solid | White to Off-White Solid |
| NMR | Conforms to Structure | Conforms |
| HPLC Purity | Report Result | 96.51% (235 nm) |
| MS | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 61.63, %H: 7.87, %N: 11.94 |

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 $\pm 2\%$. 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 |
|------------------|---------------|--------------------|------------|-------------|
| Meenakshi Sharma | Toni Rantanen | Chanell Chu | 12/14/2023 | 12/12/2027 |