



CERTIFICATE OF ANALYSIS

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1. Identification

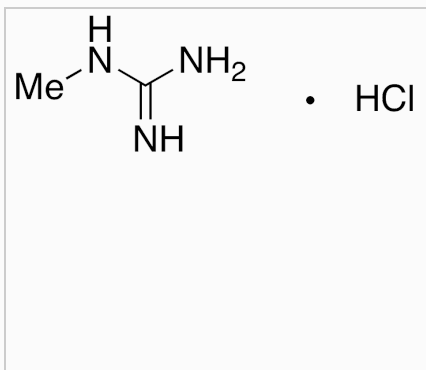
Catalogue Number: M311776

CAS Number: 21770-81-0

Product: N-Methylguanidine Hydrochloride

Synonym: N-Methylguanidine monohydrochloride;
Methylguanidinium Chloride;

Structure:



Molecular Formula:

C₂H₈ClN₃

Molecular weight:

109.56

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly), Water (Slightly)

Lot Number: 14-GHZ-188-1

Purity: 98%

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: |
|--------------------|-----------------------|-------------------------------|
| NMR | Conforms to structure | Conforms |
| MS | Conforms to Structure | Conforms |
| Melting Point | Report Results | 121 - 124°C |
| HPLC | | 99.68% |
| Water Content | Report Result | Refer: Additional Information |
| Anion Content | Report Results | Refer: Additional Information |
| Elemental Analysis | Conforms | Refer: Additional Information |
| Appearance | | Off-White Solid |

Additional Information:

TLC Conditions: C18; Acetonitrile : Water = 9 : 1; Visualized with UV;
Single Spot, R_f = 0.50. 1H NMR and MS conform with structure. Elemental Analysis: (Found) %C: 21.56, %H: 7.66, %N: 37.23; (Calculated) %C: 21.93, %H: 7.36, %N: 38.35. Chloride Content: 32.19% by Ion Chromatography

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 |
|---|-------------|--------------------|-----------|-------------|
| Philip Chan | | | 7/26/2018 | 7/24/2025 |
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