



CERTIFICATE OF ANALYSIS

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1. Identification

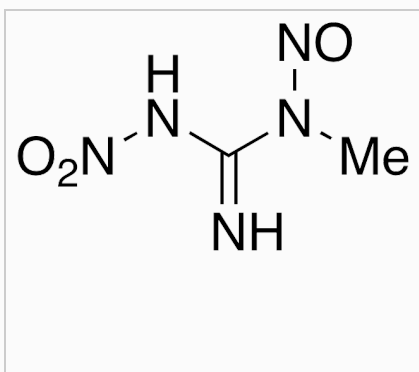
Catalogue Number: N493990

CAS Number: 70-25-7

Product: N'-Nitro-N-nitroso-N-methylguanidine (Stabilized with 40% Water)

Synonym: N-Methyl-N'-nitro-N-nitroso-guanidine; 1-Methyl-1-nitroso-2-nitroguanidine; Methylnitronitrosoguanidine; N-Nitrosoguanidine; N-Nitroso-N'-nitro-N-methylguanidine; 1-Methyl-3-nitro-1-nitrosoguanidine; MNNG; NSC 9369;

Structure:



Molecular Formula:

C₂H₅N₅O₃

Molecular weight:

147.09

Source of Product:

Synthetic

Solubility:

DMSO (Sparingly), Methanol (Slightly, Sonicated)

Lot Number: 24-BHW-103-2

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped With Blue Ice

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Pale Yellow to Dark Yellow Semi-Solid	Light Yellow to Yellow Semi-Solid
Water Content	Report Result	41.9% by Karl Fischer
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	99.51% (220 nm)
FT-IR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 9.86, %H: 6.45, %N: 28.41

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
Swathi Reddy	Toni Rantanen	Chanell Chu	2/25/2022	2/23/2026
