



CERTIFICATE OF ANALYSIS

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1. Identification

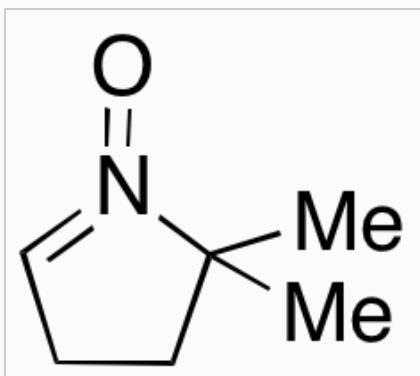
Catalogue Number: D473665

CAS Number: 3317-61-1

Product: 5,5-Dimethyl-1-pyrroline N-Oxide

Synonym: 2,2-Dimethyl-3,4-dihydro-2H-pyrrole N-Oxide; 5,5-Dimethyl-1-pyrroline 1-Oxide; 5,5-Dimethyl-4,5-dihydro-3H-pyrrole N-Oxide; 5,5-Dimethyl-Δ1-pyrroline 1-Oxide; 5,5-Dimethyl-Δ1-pyrroline N-Oxide; DMPO

Structure:



Molecular Formula:

C₆H₁₁NO

Molecular weight:

113.16

Source of Product:

N/A

Solubility:

Chloroform (Slightly),
Methanol (Slightly)

Lot Number: 2-AGE-67-1

Purity: 95%

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

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Light Yellow to Orange Oil to Low-Melting Solid	Pale Orange Oil to Low-Melting Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 58.14, %H: 10.34, %N: 11.79
HPLC Purity	Report Result	99.82% (230 nm)
Water Content	Report Result	~6.6% based on Elemental Analysis

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
Sarbjeet Kaur	Toni Rantanen	Chanell Chu	8/12/2022	8/10/2026