



CERTIFICATE OF ANALYSIS

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1. Identification

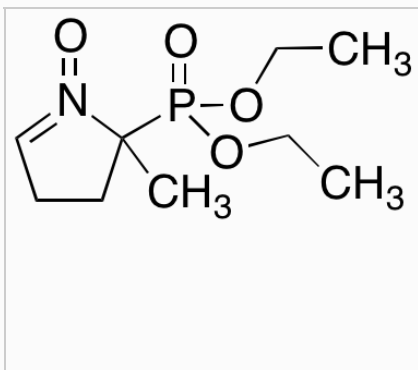
Catalogue Number: D442000

CAS Number: 157230-67-6

Product: 5-(Diethoxyphosphoryl)-5-methyl-1-pyrroline-N-oxide

Synonym: P-(3,4-Dihydro-2-methyl-1-oxido-2H-pyrrol-2-yl)phosphonic Acid Diethyl Ester; #DEPMPO;

Structure:



Molecular Formula:

C₉H₁₈NO₄P

Molecular weight:

235.22

Source of Product:

N/A

Solubility:

Chloroform (Sparingly),
Methanol (Slightly)

Lot Number: 711619214-1-2

Purity: 98%

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

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
NMR	Conforms to Structure	Conforms
P NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 45.52, %H: 7.99, %N: 5.75
HPLC Purity	Report Result	99.26% (235 nm)
Appearance	Colourless to Pale Yellow Oil	Clear Colourless Oil
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	0.0° (c = 0.2, Methanol)

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
Evan Burns	Toni Rantanen	Chanell Chu	6/27/2022	6/25/2026

Evan Burns