



CERTIFICATE OF ANALYSIS

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1. Identification

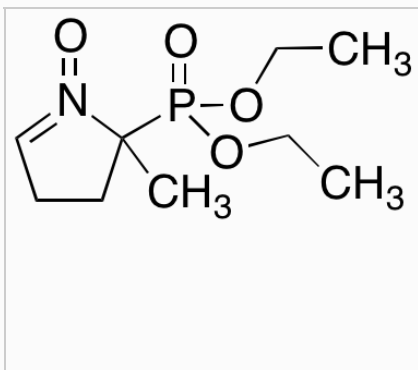
Catalogue Number: D442000

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: 2022-PVA-047

Purity: 97%

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: |
|-------------------|-------------------------------|-------------------------------------|
| Appearance | Colourless to Pale Yellow Oil | Clear Colourless to Pale Yellow Oil |
| NMR | Conforms to Structure | Conforms |
| P NMR | Conforms to Structure | Conforms |
| HPLC Purity | Report Result | 99.66% (235 nm) |
| MS | Conforms to Structure | Conforms |
| Specific Rotation | Report Result | +0.3° (c = 0.6, 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 |
|---------------|---------------|--------------------|------------|-------------|
| Sarbjeet Kaur | Toni Rantanen | Chanell Chu | 11/30/2022 | 11/28/2026 |