



CERTIFICATE OF ANALYSIS

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1. Identification

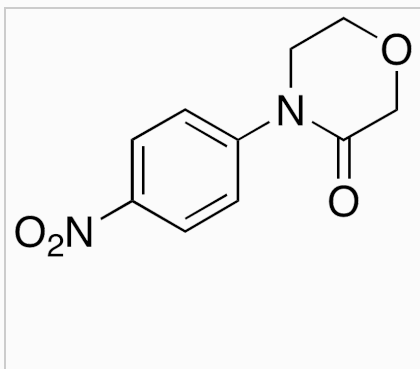
Catalogue Number: N504425

CAS Number: 446292-04-2

Product: 4-(4-Nitrophenyl)-3-morpholinone

Synonym: 4-(3-Oxo-4-morpholinyl)nitrobenzene; 4-(4-Nitrophenyl)-3-oxomorpholine; 4-(4-Nitrophenyl)morpholin-3-one; Rivaroxaban Impurity 52

Structure:



Molecular Formula:

C₁₀H₁₀N₂O₄

Molecular weight:

222.2

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly),
Methanol (Slightly)

Lot Number: 9-JHY-131-1

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: |
|-------------|---------------------------|--------------------|
| Appearance | Off-White to Yellow Solid | Light Yellow Solid |
| HPLC Purity | Report Result | 99.25% (300 nm) |
| NMR | Conforms to Structure | Conforms |
| MS | Conforms to Structure | Conforms |

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 $\pm 2\%$. 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 | 6/7/2022 | 6/5/2026 |