



## CERTIFICATE OF ANALYSIS

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### 1. Identification

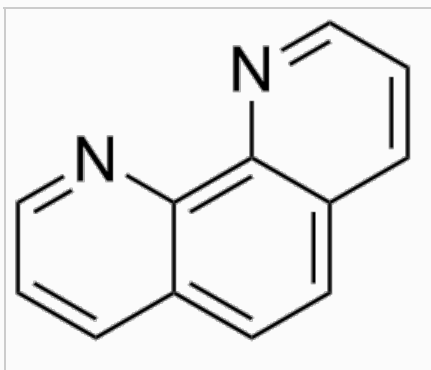
**Catalogue Number:** P295040

**CAS Number:** 66-71-7

**Product:** 1,10-Phenanthroline

**Synonym:**  $\beta$ -Phenanthroline; 1,10-o-Phenanthroline;  
4,5-Diazaphenanthrene;

**Structure:**



**Molecular Formula:**

C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>

**Molecular weight:**

180.21

**Source of Product:**

N/A

**Solubility:**

Chloroform (Slightly), Ethyl  
Acetate (Slightly)

**Lot Number:** 9-ABY-68-1

**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:**

Appearance

White to Off-White Solid

White to Off-White Solid

NMR

Conforms to Structure

Conforms

MS

Conforms to Structure

Conforms

HPLC Purity

Report Result

98.36% (230 nm)

**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

6/22/2023

6/20/2030