

## Certificate of Analysis

Date of Testing: 2024-01-04 11:47:29  
Date of Next Testing: 2028-01-03 11:47:29  
Product Name: **5-Nitro-1,10-phenanthroline**  
CAS Number: 4199-88-6  
Specifications & Purity: 98%  
Lot #: A2402518  
SKU #: **N119911**  
**Analysis: 297779**

| Parameter   | Limit Values   | Result   |
|---|--|--|
| Purity(Nonaqueous Titration)  | 98-100 (%)   | 99.62%   |
| Melting point   | 200-203 (°C)   | 201.99000 °C   |
| Purity(HPLC)  | 98-100 (%)   | 98.60500%  |
| Infrared spectrum   | Conforms to Structure                                | Conforms to Structure                                |
| Proton NMR spectrum   | Conforms to Structure                                | Conforms to Structure                                |
| Solubility in EtOH , Yellow to Orange,Clear to Slightly Hazy,50 mg/mL | pass   | Pass   |
| Appearance (N119911)  | Yellow to Yellow-Green to Brown Powder and/or Chunks | Yellow to Yellow-Green to Brown Powder and/or Chunks |



John Su  
QA & QC Manager