

## Certificate of Analysis

Date of Testing: 2023-05-06 09:29:08  
Date of Next Testing: 2027-05-05 09:29:08  
Product Name: **5-Nitro-1,10-phenanthroline**  
CAS Number: 4199-88-6  
Specifications & Purity: 98%  
Lot #: D2321373  
SKU #: **N119911**  
Analysis: **026772**

Parameter	Limit Values	Result
Purity(NonaqueousTitration)	98-100 (%)	99.00 %
Melting point	200-203 (°C)	200.19000 °C
Purity(HPLC)	98-100 (%)	98.10560 %
Appearance (N119911)	Yellow to Brown Powder and/or Chunks	Yellow to Brown Powder and/or Chunks
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



John Su  
QA & QC Manager