

Certificate of Analysis

Date of Testing: 2022-08-12 11:52:01
 Date of Next Testing: 2026-08-11 11:52:01
 Product Name: **1,10-Phenanthroline-2,9-dicarboxylic acid hydrate**
 CAS Number: 57709-61-2
 Specifications & Purity: $\geq 98\%$
 Lot #: H2204052
 SKU #: **P122853**
 Version: **0**
 Analysis #: **093411**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Carbon by Elemental Analysis(anhydrous)	60.7-62.9 (%)	60.90 %
Nitrogen by Elemental Analysis (anhydrous)	9.6-10.9 (%)	10.23 %
Purity(HPLC)	98-100 (%)	98.76700 %
Appearance (P122853)	Yellow to Orange Powder and/or Chunks	Yellow to Orange Powder and/or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
 QA & QC Manager