

## Certificate of Analysis

Date of Testing: 2023-04-26 17:44:02  
Date of Next Testing: 2027-04-25 17:44:02  
Product Name: **Copper(II) phthalocyanine**  
CAS Number: 147-14-8  
Specifications & Purity: sublimed grade, 99 %  
Lot #: D2323930  
SKU #: **C123342**  
Version: **0**  
Analysis #: **107225**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity	99-100 (%)	99.00 %
Water by Karl Fischer	0-0.5 (%)	0.00 %
Nitrogen by Elemental Analysis	19.2-19.9 (%)	19.42 %
Carbon by Elemental Analysis	65.7-68.4 (%)	65.89 %
Wavelength(c=0.005g/L;Chloronaphthalene)	675-681 (nm)	678.00 nm
Extinction Coefficient	≥11000	11008.00
ICP: Confirms Cu Components	Confirmed	Confirmed
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance (C123342)	Purple Needles and/or Powder	Purple Needles and/or Powder



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QA & QC Manager