

## Certificate of Analysis

Date of Testing: 2022-01-26 17:28:41  
Date of Next Testing: 2026-01-25 17:28:41  
Product Name: **Copper(II) phthalocyanine**  
CAS Number: 147-14-8  
Specifications & Purity: sublimed grade, 99 %  
Lot #: A2220265  
SKU #: **C123342**  
**Analysis:** **063794**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	19.2-19.9 (%)	19.36 %
Purity	99-100 (%)	99.50 %
Carbon by Elemental Analysis	65.7-68.4 (%)	66.38 %
Wavelength(c=0.005g/L;Chloronaphthalene)	675-681 (nm)	678.00 nm
Water by Karl Fischer	0-0.5 (%)	0.30 %
Extinction Coefficient	≥11000	12000.00
Appearance (C123342)	Purple Needles and/or Powder	Purple Needles and/or Powder
ICP: Confirms Cu Components	Confirmed	Confirmed
Infrared spectrum	Conforms to Structure	Conforms to Structure



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QA & QC Manager