

## Certificate of Analysis

Date of Testing: 2023-11-16 09:28:00  
Date of Next Testing: 2027-11-15 09:28:00  
Product Name: **Copper nitrate hydrate**  
CAS Number: 13778-31-9  
Specifications & Purity: 99.999% metals basis  
Lot #: K2308074  
SKU #: **C102132**  
**Analysis:** **296045**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.999-100 (%)	100.00 %
Copper(Cu)	26.5-27.7 (%)	27.16 %
Total Metallic Impuritie	0-20 (ppm)	9.00 ppm
Water by Karl Fischer	17.4-26.4 (%)	22.17 %
Appearance (C102132)	Blue Crystals	Blue Crystals
ICP: Confirms Cu Components	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager