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Certificate of Analysis

Product Name : Copper(II) nitrate trihydrate ≥99.9% trace metals basis

Product Number :940143-BULKBatch Number :0000378896CAS Number :10031-43-3Storage Temperature : $2 - 30 \,^{\circ}\text{C}$ Molecular Formula : $\text{CuN}_2\text{O}_6 \cdot 3\text{H}_2\text{O}$ Formula Weight :241.60 g/molQuality Release Date :13 Nov 2024

 $Cu(NO_3)_2 . 3H_2O$

Test	Specification	Result
Appearance (Color)	Dark Blue to Very Dark Blue	Dark Blue
Appearance (Form)	Powder or Crystals	Crystals
Assay (Redox Titration Iodometric)	99,0 - 101,0 %	99,3 %
Silver (Ag)	≤ 10,0 ppm	0,3 ppm
Aluminum (Al)	≤ 10,0 ppm	0,3 ppm
Arsenic (As)	≤ 10,0 ppm	0,3 ppm
Boron (B)	≤ 10,0 ppm	0,1 ppm
Barium (Ba)	≤ 10,0 ppm	0,2 ppm
Bismuth (Bi)	≤ 10,0 ppm	0,4 ppm
Calcium (Ca)	≤ 10,0 ppm	5,8 ppm
Cobalt (Co)	≤ 10,0 ppm	0,2 ppm
Iron (Fe)	≤ 10,0 ppm	1,9 ppm
Iridium (Ir)	≤ 10,0 ppm	0,2 ppm
Potassium (K)	≤ 10,0 ppm	2,6 ppm
Magnesium (Mg)	≤ 10,0 ppm	0,6 ppm
Manganese (Mn)	≤ 10,0 ppm	3,7 ppm
Sodium (Na)	≤ 10,0 ppm	3,8 ppm
Nickel (Ni)	≤ 10,0 ppm	2,4 ppm
Lead (Pb)	≤ 10,0 ppm	0,8 ppm
Platinum (Pt)	≤ 10,0 ppm	0,1 ppm

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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≤ 10,0 ppm	5,0 ppm
≤ 10,0 ppm	4,0 ppm
≤ 10,0 ppm	0,1 ppm
≤ 10,0 ppm	0,1 ppm
≤ 10,0 ppm	0,1 ppm
≤ 10,0 ppm	2,0 ppm
≤ 10,0 ppm	0,5 ppm
≤ 20,0 ppm	< 20,0 ppm
≤ 50,0 ppm	< 50,0 ppm
Conforms	Conforms
	<pre>≤ 10,0 ppm ≤ 20,0 ppm ≤ 20,0 ppm</pre>

Pramod Kadam(PhD),Manager

Version Number: 01 Doc: 1192000

Analytical Bangalore

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