

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Copper(II) sulfate pentahydrate 99.995% trace metals basis



Product Number: 469130
Lot Number: MKBG3914V
Brand: ALDRICH
CAS Number: 7758-99-8
MDL Number: MFCD00149681
Formula: CuO4S · 5H2O
Formula Weight: 249.69 g/mol
Quality Release Date: 10 FEB 2011

Test	Specification	Result
Appearance (Color)	Blue	Blue
Appearance (Form)	Conforms to Requirements	Crystals
Crystals		
ICP Major Analysis	Confirmed	Conforms
Confirms Copper and Sulfur Components		
Titration by Na2S2O3	98.0 - 102.0 %	99.4 %
Insoluble matter	≤ 0.005 %	0.001 %
Calcium (Ca)	≤ 0.005 %	0.003 %
Chloride Content	≤ 0.001 %	< 0.001 %
Iron (Fe)	≤ 0.003 %	0.002 %
Potassium (K)	≤ 0.01 %	< 0.01 %
Sodium (Na)	≤ 0.02 %	< 0.02 %
Nitrogen Compounds	≤ 0.002 %	< 0.002 %
Nickel	≤ 0.005 %	0.001 %
Trace Metal Analysis	≤ 60.0 ppm	12.6 ppm
Barium (Ba)		< 0.1 ppm
Calcium (Ca)		1.2 ppm
Chromium (Cr)		0.4 ppm
Iron (Fe)		4.2 ppm
Magnesium (Mg)		0.3 ppm
Manganese (Mn)		0.1 ppm
Sodium (Na)		0.6 ppm
Nickel (Ni)		0.6 ppm
Lead (Pb)		5.3 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. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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Lot Number: MKBG3914V

Test	Specification	Result
Purity 99.995% Based On Trace Metals Analysis	Meets Requirements	Meets Requirements

Remarks:

Reviewing Chemist :



Jamie Gleason, Manager
Quality Control
Milwaukee, Wisconsin US

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