



Certificate of Analysis

Cupric Sulfate Pentahydrate USP

Catalog Number: CS1008
Lot Number: 1020701
CAS Number: 7758-99-8
Synonym(s): Copper(II) Sulfate Pentahydrate
Molecular Formula: $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
Molecular Weight: 249.68
Storage: 15°C – 30°C
Date of Manufacture: January 1, 2016
Retest Date: December 31, 2020

Test	Specification	Result
Appearance	Deep blue crystals	Conforms
Assay (USP)	98.5 – 100.5%	98.95%
Assay	98.0 – 102.0%	99.12%
Identification	To pass test	Conforms
Solubility	Freely soluble in water and in glycerin, slightly soluble in alcohol	Conforms
Moisture (LOD)	33.0 – 36.5%	34.11%
Insoluble Substances	$\leq 0.005\%$	0.003%
Substances Not Precipitated by Hydrogen Sulfide	$\leq 0.3\%$	0.08%
Chloride	$\leq 0.001\%$	$< 0.001\%$
Nitrogen Compounds	$\leq 0.002\%$	$< 0.002\%$
Calcium	$\leq 0.005\%$	0.001%
Iron	$\leq 0.003\%$	0.002%
Nickel	$\leq 0.005\%$	0.0026%
Potassium	$\leq 0.02\%$	0.001%
Sodium	$\leq 0.02\%$	0.001%
Lead	$\leq 0.005\%$	0.0006%

Approved by:

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Gojira Fine Chemicals, LLC

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