Copper(II) sulfate pentahydrate
ACS Reagent

Product Number 20,919-8
Store at Room Temperature
Exact replacement for Product Number C 6283

Product Description
Molecular Formula: CuSO₄ • 5H₂O
Molecular Weight: 249.7
CAS Number: 7758-99-8
Synonym: cupric sulfate pentahydrate

This product is designated as ACS Reagent grade, and meets the specifications of the American Chemical Society (ACS) for reagent chemicals.

Copper sulfate is a reagent that is used in many large-scale applications. Applications include textile dyeing, the preparation of azo dyes, wood preservation, and the tanning of leather. Copper sulfate pentahydrate occurs in nature as the mineral chalcanthite.¹

Copper sulfate is frequently utilized to oxidize lipoproteins in the context of biological oxidative stress.²³ It is also used in studies of plants and plant pathogens.⁴⁵

A protocol for the isolation of recombinant yeast 6-phosphofructo-2-kinase that uses copper sulfate has been published.⁶ A procedure has been reported for the purification of dye- and metal ion-binding proteins in a polyvinylpyrrolidone-based aqueous two-phase system.⁷

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in water (100 mg/ml), yielding a clear blue solution. It is also soluble in methanol and glycerol, and slightly soluble in ethanol.¹

References
1. The Merck Index, 12th ed., Entry# 2722.

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