



## Specification

### Cupric Sulfate Pentahydrate USP

**Catalog Number:** CS1008  
**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  
**Retest Period:** Four years from the date of manufacture

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

Approved:

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