



# Product Specification

## Product Name: COPPER(II) SULFATE Pentahydrate LR

Alternate Name(s) Cupric Sulfate; Blue Stone; Blue copperas; Blue Vitriol

### Description

Blue crystals or blue crystalline granules or powder.

### Properties

Chemical Formula:  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

Molecular Weight: 249.68

Product Code: CL068

CAS No. 7758-99-8

### General Information:

Slowly effloresces in air. Nauseous metallic taste. Soluble in water, methanol; slightly soluble in ethanol & glycerol. Environmental hazard - spills very toxic to aquatic life.

### Hazard and Safety Data

UN Group: III  
Class: 9  
UN Number: 3077  
Hazchem code: 2X  
CS MSDS Code: 1CH2B  
Poison schedule: S6  
Emergency  
Procedure Guide No.: 47

### Quality Specification

Assay: 98.0% min

### Specific Properties and Impurities [Typical levels]:

Dielectric Constant	7.8 (17-22°C)
pH Value (50 g/L, H <sub>2</sub> O, 20 °C)	3.5 - 4.5
Solubility in Water (20°C)	317 g/L
Specific Gravity	2.29
Chloride (Cl)	≤ 0.05%
Iron (Fe)	≤ 0.005%
Lead (Pb)	≤ 0.005%
Nickel (Ni)	≤ 0.005%
Zinc (Zn)	≤ 0.005%

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