

## Specification Sheet

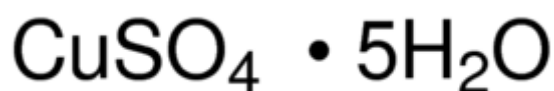
209198 Sigma-Aldrich

## Copper(II) sulfate pentahydrate

ACS reagent, ≥98.0%

Synonym: Blue Vitriol, Cupric sulfate pentahydrate, Sulfuric acid, copper(II) salt (1:1) pentahydrate

- CAS Number [7758-99-8](#)
- Linear Formula  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
- Molecular Weight 249.69
- EC Number [231-847-6](#)
- MDL number [MFCD00149681](#)
- PubChem Substance ID [329752057](#)
- NACRES NA.21



SKU-Pack Size	Availability	Pack Size	Price (SGD)	Quantity
209198-5G	Available to ship on 15.04.2021 - FROM	5 g		<input type="text" value="0"/>
209198-100G	Available to ship on 15.04.2021 - FROM	100 g		<input type="text" value="0"/>
209198-250G	Available to ship on 15.04.2021 - FROM	250 g		<input type="text" value="0"/>
209198-500G	Available to ship on 15.04.2021 - FROM	500 g		<input type="text" value="0"/>
209198-2.5KG	Available to ship on 15.04.2021 - FROM	2.5 kg		<input type="text" value="0"/>
209198-12KG	Estimated to ship on 28.04.2021 - FROM	12 kg		<input type="text" value="0"/>
209198-25KG	Estimated to ship on 05.05.2021 - FROM	25 kg		<input type="text" value="0"/>



## Properties

### Related Categories

[Catalysis and Inorganic Chemistry](#), [Chemical Biology](#), [Chemical Synthesis](#), [Click Chemistry: Catalysts, Ligands and Reagents](#), [Conjugation Chemistry: Azides, Alkynes and Other Reagents](#),

### Quality Level

[200](#)

### grade

**ACS reagent**

### vapor pressure

**7.3 mmHg ( 25 °C)**

### assay

**≥98.0%**

**98.0-102.0% (ACS specification)**

### form

**crystals**

### reaction suitability

**reaction type: click chemistry**

**reagent type: catalyst**

**core: copper**

### pH

**3.5-4.5 (20 °C, 50 g/L)**

### mp

**110 °C (dec.) (lit.)**

### anion traces

**chloride (Cl<sup>-</sup>): ≤0.001%**

### cation traces

**Ca: ≤0.005%**

**Fe: ≤0.003%**

**K: ≤0.01%**

**Na: ≤0.02%**



Ni: ≤0.005%

storage temp.

room temp

SMILES string

O.O.O.O.O.[Cu++].[O-]S([O-])(=O)=O

InChI

1S/Cu.H2O4S.5H2O/c;1-5(2,3)4;;;;;/h;(H2,1,2,3,4);5\*1H2/q+2;;;;;/p-2

InChI key

JZCCFEFSEZPSOG-UHFFFAOYSA-L

[Show Fewer Properties](#)

## Description

### Packaging

12 kg in fiber drum

2.5 kg in poly bottle

25 kg in poly drum

5, 100, 250, 500 g in poly bottle

