

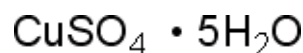
3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaldrich.com](http://www.sigmaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Product Specification

Product Name:  
Copper(II) sulfate pentahydrate - ACS reagent, ≥98.0%

**Product Number:** 209198  
**CAS Number:** 7758-99-8  
**MDL:** MFCD00149681  
**Formula:** CuO4S · 5H2O  
**Formula Weight:** 249.69 g/mol



| TEST                      | Specification             |
|---------------------------|---------------------------|
| Appearance (Color)        | Blue                      |
| Appearance (Form)         | Crystals                  |
| X-Ray Diffraction         | Conforms to Structure     |
| Titration by Na2S2O3      | 98.0 - 102.0 %            |
| Insoluble matter          | ≤ 0.005 %                 |
| Chloride Content          | ≤ 0.001 %                 |
| Iron (Fe)                 | ≤ 0.003 %                 |
| Nitrogen Compounds        | ≤ 0.002 %                 |
| Calcium (Ca)              | ≤ 0.005 %                 |
| Potassium (K)             | ≤ 0.01 %                  |
| Sodium (Na)               | ≤ 0.02 %                  |
| Nickel                    | ≤ 0.005 %                 |
| Meets ACS Requirements    | Current ACS Specification |
| Recommended Retest Period | -----                     |
| 2 Years                   |                           |

Specification: PRD.0.ZQ5.10000015529

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.