



**EMD Chemicals Inc.**  
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**Name:** Copper (II) Sulfate pentahydrate  
GR for analysis  
ACS,ISO, Reag. Ph Eur

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

**Item Number:** 1.02790.0250, 1.02790.1000, 1.02790.5000

**Formula Wt:** 249.68

**Lot Number:** A779290

**Data Order No:** 000169426

CHARACTERISTIC	REQUIREMENT		RESULTS	UNITS
	Min.	Max.		
Assay (iodometric)	99.0	100.5	99.9	%
Calcium (Ca)		0.005	<0.005	%
Chloride (Cl)		0.0005	<0.0005	%
Insoluble matter		0.005	<0.005	%
Iron (Fe)		0.003	<0.002	%
Lead (Pb)		0.005	<0.005	%
Minimum shelf life			29-AUG-2011	
Nickel (Ni)		0.005	<0.0003	%
Original Examination Date			9-AUG-2006	
Potassium (K)		0.001	<0.001	%
Sodium(Na)		0.005	<0.005	%
Total nitrogen (N)		0.001	<0.001	%
Zinc (Zn)		0.03	<0.003	%

Jim Morgera,  
Quality Control Manager  
Release Date: 2/22/2008

EMD Chemicals Inc.  
(Formerly EM Science, A Division of EM Industries, Inc.)  
An Affiliate of Merck KGaA, Darmstadt, Germany