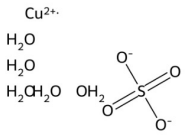
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CERTIFICATE OF ANALYSIS — Standard product specification

Copper Sulphate Pentahydrate Technical

CAS 7758-99-8 · H10CuO9S · ≥98.5% Technical



STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	Copper Sulphate Pentahydrate Technical
C.A.S. number	7758-99-8
Molecular formula	H10CuO9S
Molecular weight	249.68 g/mol
Grade / standard	≥98.5% Technical
Description	Blue crystalline powder
Product group	Copper Compounds
Category	Inorganic Salts & Compounds
Country of origin	India
Packing	Bags, drums, carboys, IBC or ISO tank as applicable — customer-specified packing available
Storage	Cool, dry, well-ventilated place in tightly closed original packing

2. ANALYTICAL SPECIFICATION

S. NO.	TEST PARAMETER	SPECIFICATION	TYPICAL RESULT	METHOD
1	Description	Blue crystalline powder	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Solubility	As per specification	Complies	Visual / Monograph
4	Assay	Not less than 98.5 % w/w	98.99	Titrimetry / Instrumental
5	Matter Insoluble in Water	Not more than 0.05 % w/w	0.016	Gravimetry

6	pH (5 % w/v aqueous solution)	As per specification	6.9	Potentiometry
7	Chloride (as Cl)	Not more than 0.01 % w/w	0.0029	Turbidimetry / IC
8	Sulphate (as SO4)	Not more than 0.02 % w/w	0.0044	Turbidimetry / IC
9	Iron (as Fe)	Not more than 20 ppm	1.4 ppm	ICP-OES / AAS
10	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
11	Moisture	Not more than 1.0 % w/w	0.24	Karl Fischer / Gravimetry

3. DECLARATION

This document sets out the standard specification for Copper Sulphate Pentahydrate Technical and applies to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with, and travels with, each consignment. Scapex Exports supplies against customer-specified assay limits and pharmacopoeial standards — send your specification sheet and we confirm compliance in writing before the order is accepted.

