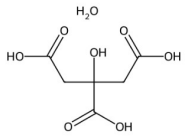
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CERTIFICATE OF ANALYSIS — Standard product specification

Citric Acid Monohydrate

CAS 5949-29-1 · C6H10O8 · ≥99.5% Technical/Food



STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	Citric Acid Monohydrate
C.A.S. number	5949-29-1
Molecular formula	C6H10O8
Molecular weight	210.14 g/mol
Grade / standard	≥99.5% Technical/Food
Description	White crystalline powder
Product group	Cleaning & RO Chemicals
Category	Water Treatment Chemicals
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	White 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 99.5 % w/w	99.61	Titrimetry / Instrumental
5	pH (1 % aqueous solution)	As per specification	7.0	Potentiometry

6	Matter Insoluble in Water	Not more than 0.5 % w/w	0.065	Gravimetry
7	Iron (as Fe)	Not more than 50 ppm	3.7 ppm	ICP-OES
8	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
9	NSF/ANSI 60 suitability	Suitable for potable water treatment	Complies	Manufacturer declaration
10	Moisture	Not more than 1.0 % w/w	0.40	Karl Fischer / Gravimetry
11	Total Aerobic Microbial Count	Not more than 1000 cfu/g	104 cfu/g	IP / USP <61>
12	Total Yeast & Mould Count	Not more than 100 cfu/g	5 cfu/g	IP / USP <61>
13	Escherichia coli	Absent in 1 g	Absent	IP / USP <62>
14	Salmonella species	Absent in 10 g	Absent	IP / USP <62>

3. DECLARATION

This document sets out the standard specification for Citric Acid Monohydrate 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.

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