

Certificate of Analysis

Product Name: Citric Acid

Product Information

Product Number: CA-20260203 Batch Number: CA-B2026020301 Brand: SIGALD CAS Number: 77-92-9 Formula: C₆ H₈ O₇ Molecular Weight: 192.13 g/mol Purity Grade: ≥ 99.5% (w/w, Food Grade) Quality Release Date: 03 FEB 2025

Test Item	Specification (Food Grade, GB 1987-2007)	Result	Test Method
Appearance	White crystalline powder, odorless, sour taste	White crystalline powder, odorless, sour taste	Visual & Sensory Inspection
Purity (HPLC)	≥ 99.5%	99.7%	High Performance Liquid Chromatography
Melting Point (°C)	153-159 (decomposition)	155-157	Melting Point Apparatus Method
Moisture Content (Karl Fischer)	≤ 0.5%	0.22%	Karl Fischer Titration Method
Ash Content	≤ 0.1%	0.04%	Ignition Method (800±50°C)
Heavy Metals (Pb) Content	≤ 0.0001%	0.00008%	Atomic Absorption Spectrometry (AAS)
Chloride (Cl ⁻) Content	≤ 0.005%	0.002%	Silver Nitrate Turbidimetry
pH (1% Aqueous Solution, 25°C)	2.0-2.5	2.2	pH Meter Method

This batch of product has been tested in accordance with GB 1987-2007, FCC-VI and USP-NF standards, meeting all specified requirements for Citric Acid. It is qualified for use in food, beverage, cosmetic, pharmaceutical and water treatment scenarios.
Issue Date: 03 FEB 2025