

Citric Acid Anhydrous / Monohydrate

Acidulant and buffering agent

Product Description

Pharmaceutical-grade Citric Acid Anhydrous and Monohydrate are used as acidulants, buffers and effervescent agents in oral solutions, powders and parenteral formulations. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2918.14

CAS Number: Monohydrate: 5949-29-1 Anhydrous: 77-92-9 Classification: Pharmaceutical Excipient — A

Parameter	Specification	Test Method
Appearance	White crystalline powder	Visual
Assay	99.5–100.5%	Titration
Identification	Conforms to reference standard	IR
Melting Point (Anhydrous)	153–159°C	USP <741>
Loss on Drying (Monohydrate)	7.5–8.8%	USP <731>
Loss on Drying (Anhydrous)	"d 0 . 5 %	USP <731>
Sulphate	"d 1 5 0 p p m	Turbidimetry
Oxalate	"d 1 0 0 p p m	Precipitation test
Heavy Metals	"d 5 p p m	USP <231>

Physical Properties

Appearance: White crystalline powder

Molecular Formula: $C_6H_8O_7$ (anhydrous)

Molecular Weight: 192.12 g/mol

Solubility: Very soluble in water; freely soluble in ethanol

Melting Point: 153–159°C (anhydrous)

Packing: 25 kg HDPE bags with polyethylene inner liner; 50 kg bags available

Storage: Store in a cool, dry, well-ventilated area. Below 25°C.

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Irritating to eyes and skin (acidic)
- Dust may cause respiratory irritation