

SPECIFICATION

Product Name: Citric Acid Anhydrous
Chemical Formula: C ₆ H ₈ O ₇
CAS Number: 77-92-9
Molecular Weight: 192.12 g/mol
Appearance: White or almost white crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Pass	Pass Test
Appearance of solution	-	Pass	Pass Test
Assay	%	100.1%	99.5 - 100.5%
Water	%	0.11%	<0.5%
Readily Carbonisable Substances	-	Pass	Pass Test
Sulphated Ash (Residue on Ignition)	%	0.02%	≤0.05%
Sulfate	mg/kg	<50	≤50
Oxalate	mg/kg	<50	≤50
Chloride	mg/kg	<5	≤5
Lead	mg/kg	<0.1	≤0.1
Arsenic	mg/kg	<0.1	≤0.1
Mercury	mg/kg	<0.1	≤0.1

Aluminium	mg/kg	<0.2	≤0.2
Heavy Metals	mg/kg	<5	≤5
Bacterial endotoxins	IU/mg	<0.5	≤0.5

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in methanol.
Insoluble in ether. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture, humidity, and contamination.

Applications

- Use: Widely used in pharmaceutical, nutraceutical, food, beverage, cosmetic, and industrial applications. It functions as an acidulant, pH regulator, buffering agent, chelating agent, preservative aid, and flavor enhancer.
- Dosage: Depends on Desired pH level, Acidity requirements, Product formulation, Regulatory requirements, Intended application.

Packaging

- Standard Packing: 25 kg woven pp bag with inner liner or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.