

SPECIFICATION

Product Name: Citric Acid Monohydrate (Possy)
Chemical Formula: $C_6H_8O_7 \cdot H_2O$
CAS Number: 5949-29-1
Molecular Weight: 210.14 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification A, B and C	-	Complies	As per IP
Arsenic	PPM	<1 PPM	NMT 1 PPM
Barium	-	Complies	As per IP
Calcium	PPM	<10 PPM	NMT 200 PPM
Heavy Metals	PPM	<2 PPM	NMT 10 PPM
Iron	PPM	<5 PPM	NMY 50 PPM
Chloride	PPM	<10 PPM	NMT 50 PPM
Sulphate	PPM	<15 PPM	NMT 150 PPM
Oxalic acid	PPM	Complies	NMT 300 PPM
Readily carbonisable subs.	-	Complies	As per IP
Sulphates Ash	%	0.02%	NMT 0.1%
Water	%	8.65%	7.5% - 9.0%

Assay (on anhydrous basis)	%	99.23%	99.0% to 101.0%
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Physical Properties

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

Shelf Life & Storage

- Shelf Life: 4 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, heat, 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, Acidity level, Product formulation, Regulatory requirements, Intended application.

Packaging

- Standard Packing: 25 Kgs 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.