CITRIC ACID MONOHYDRATE

Cas Number: 5949-29-1

Other Names: Citric acid hydrate, Citric acid,
2-hydroxypropane-1,2,3-tricarboxylic acid hydrate.

Formula: $C_6H_8O_7 \cdot H_2O$

PRODUCT INTRODUCTION

Citric acid monohydrate is an organic acid found naturally in citrus fruits; as a starting point in the Krebs cycle, citrate is a key intermediate in metabolism. It is efflorescent in dry air, very soluble in water, freely soluble in ethanol and sparingly soluble in ether. Citric acid monohydrate is non-toxic and has a low reactivity. Citric acid monohydrate is fully biodegradable and can be disposed of with regular waste or sewage.

PHYSICAL AND CHEMICAL PROPERTIES

Characters	White or almost white, crystalline powder, colourless crystals or granules. Odorless, has a strong acid taste. Effloresces in dry air. Very soluble in water, freely soluble in ethanol
Identification	Pass
Appearance of Solution	Pass
Assay	99.9 %
Water	8.6 %
Readily Carbonisable Substances	Pass Test
Sulphated Ash (Residue on ignition)	0.02 %
Sulfate	< 150 mg/kg
Oxalate	≤ 100 mg/kg
Lead	≤ 0.5 mg/kg
Arsenic	≤ 1 mg/kg
Mercury	≤ 1 mg/kg

Aluminum	≤ 0.2 mg/kg
Heavy Metals	≤ 10 mg/kg
Bacterial Endotoxins	< 0.5 IU/mg

APPLICATIONS

- Citric Acid Anhydrous is widely used as acidity regulator in processed fruit and vegetable to improve flavor; in baking powder to react with sodium carbonate to reduce alkaline taste .
- It is also used as preservative: in canned food to inhibit microbial development.
- Citric Acid Anhydrous is widely used as thrombin inhibitor in anticoagulant to improve blood fluidity and fungicide in Pharmaceutical.
- It is also extensively used as exfoliating agent and antioxidant in Cosmetics.
- As cleansing agent: in plumbing cleaning to remove scale.
- As anti crease agent: in textile to prevent formaldehyde contamination.
- As additive: in plastic manufacturing to improve mechanical properties.
- As concrete retardant: in construction to improve concrete quality.

PACKAGING OPTIONS

Drums

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