



CITRIC ACID ANHYDROUS, USP/FCC

DESCRIPTION:

Citric acid anhydrous is produced as translucent crystals and as white crystalline powder. It is odorless and has a strong acidic taste. Citric acid anhydrous is very soluble in water and freely soluble in alcohol. Storage in tight containers away from heat and humidity (75°F and 55% RH) is recommended.

Citric acid is widely used in the food, beverage, and pharmaceutical industries to impart a clean, refreshing tartness. Its prime use is as an acidulant, but it is also used as sequestrant of metal ions to give protection from the development of off-flavors and off-odors in certain foodstuffs.

A major industrial use of citric acid is in the manufacture of ecologically compatible detergents. It is also used in chemical cleaning, concrete admixtures, plasticizers, and a range of other applications.

GENERAL CHARACTERISTICS:

Formula	$H_2C_6H_7O_7$
Molecular Weight	192.13
Taste	Tart
Solubility (g/100 ml at 25°C)	
Water	162
Alcohol	59.1

STANDARD SPECIFICATIONS:

Appearance	Free-flowing, colorless, translucent crystals or as a white granular to fine crystalline powder
Odor	None
Identification	Meets USP/FCC tests
Assay (anhydrous basis)	99.5 to 100.5%
Water	Maximum 0.5%
Residue on Ignition	Maximum 0.05%
Oxalate	Meets USP/FCC tests
Sulfate	Meets USP test
Heavy Metals (as lead)	Maximum 5.0 ppm
Lead	Maximum 0.5 ppm
Arsenic	Maximum 1.0 ppm
Readily Carbonizable Substances	Not darker than matching fluid K
Organic Volatile Impurities	Meets USP test

This Food Additive complies with all the compendial requirements of the U.S. Pharmacopeia, Food Chemical Codex, Code of Federal Regulations, European Pharmacopoeia, British Pharmacopoeia, Japanese Pharmacopoeia, and W.H.O./F.A.O. Food Additive Specification.

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