



Citric Acid Anhydrous, Fine Granular USP-NF/FCC (Excipient/Food Use Only)
(Product Code: 020420)

TECHNICAL DATA & INFORMATION

Product Information

Citric acid anhydrous 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 a 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	C ₆ H ₈ O ₇ (M.W.=192.13)
Appearance	White, fine, translucent crystals
Odor	None
Taste	Tart
Solubility (g/100 ml at 25°C)	162 in Water 59.1 in Alcohol

Standard Specifications

Identification	Meets USP-NF/FCC
Clarity of Solution	Meets USP-NF
Color of Solution	Meets USP-NF
Assay (anhydrous basis)	99.5 to 100.5%
Water	Maximum 0.5%
Residue on ignition	Maximum 0.05%
Limit of Oxalic Acid	Maximum 0.036%
Sulfate	Maximum 0.015%
Heavy Metals (as lead)	Maximum 5.0 ppm
Lead	Maximum 0.5 ppm
Readily Carbonizable Substances	Not darker than matching fluid K
Oxalate	Passes test

Storage and Shelf Life

Citric Acid Anhydrous should be stored below 75°F and 55% relative humidity inside a tightly sealed container. The shelf life or “best by” date is 3 years. Retesting of the product is recommended after 3 years.

Availability

ADM Citric Acid Anhydrous Fine Granular is available in 50 lb. bags, 25 kg bags, 250 lb. drums, 1000 kg and 2000 lb. tote quantities. Bulk quantities contain food grade desiccant bags within liner.

Regulatory Status

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 Pharmacopeia, and W.H.O. / F.A.O. Food Additive Specification.

Labeling

Citric Acid Anhydrous

Identification

CAS Number: 77-92-9
EINECS: 201-069-1

Regulatory Data

Country of Origin: United States
GRAS Affirmation 21 CFR 184.1033

Granulation (ADM)

On 30 USS Mesh 3% maximum
Through 100 USS Mesh 5% maximum

Lot Numbering Info

SYMMDDB (Ex: S508261= 8-26-2015)
S=Manufacturing location (Southport, NC)
Y= last digit of year
MM= month
DD= day of month
B= packaging bin number

Date Approved
03/09/2016

Version
2.0

Document #
CBU.TS.SPEC.020420

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