



ATLANTIC SPICE CO.

PRODUCT SPECIFICATION

Citric Acid Anhydrous

473

Description

Citric Acid Anhydrous consists of colourless crystals or a white, granular to fine powder, practically odourless, with a strong acid taste.

Product identification

Product codes:

Granular: 473

Chemical name: 2-hydroxy-1,2,3-propanetricarboxylic acid

Synonyms: citric acid

CAS No.: 77-92-9

EINECS No.: 201-069-1

E No: E 330

INCI name: Citric Acid

Empirical formula: C₆H₈O₇

Molecular mass: 192.12 g/mol

Specifications

Appearance: colourless crystals or white, granular to fine powder

Identity: corresponds

Water (K. Fischer): max. 0.2%

Extraneous matter: passes test

Heavy metals: max. 1 ppm

Arsenic: max. 1 ppm

Lead: max. 0.5 ppm

Mercury: max. 1 ppm

Fineness (US standard sieves):

Fine Granular On No. 25 (0.77mm) max. 10%
Thru No. 100 (0.150mm) max. 10%

Solubility

Citric Acid Anhydrous is very soluble in water, freely soluble in ethanol and sparingly soluble in ether

Stability and storage

Citric Acid Anhydrous may be stored for 36 months from the date of manufacture in the unopened original container. A relative humidity of 50% and a temperature range of 10– 30 °C are the most suitable conditions for storage.

Temperatures above 40 °C should be avoided in order to prevent caking, especially the Fine Granular 51 N and 16/40 and Powder forms. The stacking of the Fine Granular 51 N and 16/40 and Powder forms for long periods is not recommended.

Stability tests have shown that citric acid anhydrous is chemically stable for at least five years in tightly closed containers under proper storage conditions.

Uses

As an acidulant, flavour enhancer and sequestering agent in processed food and beverages, and as a synergist in antioxidant mixtures.

For pharmaceutical preparations, especially effervescent tablets. For personal care products.

This product is not intended for use in the manufacture of sterile drug products. The purchaser assumes all responsibility for additional processing, testing, labelling and registration required for such use.

Compendial compliance

Citric Acid Anhydrous meets all requirements of the USP, FCC, Ph. Eur. and JP when tested according to these compendia.

Citric Acid Anhydrous is classified as a GRAS (Generally Recognized As Safe) substance following the US Food and Drug Administration (FDA).

Safety

This product is safe for the intended use. Avoid inhalation of dust, contact with eyes and prolonged contact with skin by applying suitable protective measures and personal hygiene.

For full safety information and necessary precautions, please refer to the respective Material Safety Data Sheet.