

S.A. Citrique Belge N.V.

Product Data Sheet

Citric Acid Anhydrous

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:

Medium Granular 1200: 04 8295 1
Fine Granular 700: 04 8308 7
Fine Granular 51 N: 04 3293 8
Fine Granular 16/40: 04 3296 2
Powder: 04 3271 7

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

Synonyms: citric acid

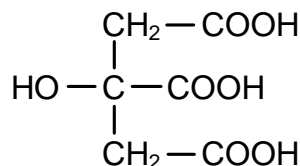
CAS No.: 77-92-9

EINECS No.: 201-069-1

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
Copper:	max. 1 ppm
Zinc:	max. 1 ppm
Iron:	max. 1 ppm
Barium:	max. 1 ppm
Calcium:	max. 10 ppm

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Magnesium:	max. 1 ppm
Aluminium:	max. 0.2 ppm
Chlorides:	max. 5 ppm
Sulphates:	max. 30 ppm
Oxalates:	max. 10 ppm
Readily carbonizable substances:	passes test
Related substances:	passes test
Sulphated ash:	meets USP requirements
Organic volatile impurities:	meets USP requirements
Tridodecylamine:	meets FCC requirements
Polycyclic aromatic hydrocarbons:	meets JP requirements
Colour (500 g/L, T at 405 nm, 1 cm):	min. 98%
Assay:	99.8–100.2% (on anhydrous substance)

Fineness (US standard sieves):

Medium Granular 1200

On No. 16 (1190 µm) max. 5%

Through No. 35 (500 µm) max. 10%

Fine Granular 700

On No. 25 (707 µm) max. 5%

Through No. 50 (297 µm) max. 5%

Fine Granular 51N

On No. 30 (595 µm) max. 5%

Through No. 100 (149 µm) max. 5%

Fine Granular 16/40

On No. 40 (420 µm) max. 5%

Through No. 100 (149 µm) max. 5%

Powder

On No. 60 (250 µm) max. 5%

Through No. 200 (74 µm) min. 65%

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.

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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.

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 DSM Material Safety Data Sheet.

Legal notice

The information given in this publication is based on our current knowledge and experience, and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations, and observe all third party rights.

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