

Citric Acid

Product Specifications

Description

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

Product identification

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
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)



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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%

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.