

# **PRODUCT SPECIFICATION**

**Product:** Citric Acid Anhydrous

### 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 acidCAS No.:77-92-9EINECS No.:201-069-1INCI name:Citric AcidEmpirical formula: $C_6H_8O_7$ 

Molecular mass: 192.12 g/mol

## **Specifications**

**Related substances:** 

**Appearance:** colorless 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

passes test



Sulphated ash:meets USP requirementsOrganic volatile impurities:meets USP requirementsTridodecylamine:meets FCC requirementsPolycyclic 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  $\mu$ m) max. 5% Through No. 35 (500  $\mu$ m) max. 10%

Fine Granular 700

On No. 25 (707  $\mu$ m) max. 5% Through No. 50 (297  $\mu$ m) max. 5%

Fine Granular 51N

On No. 30 (595  $\mu$ m) max. 5% Through No. 100 (149  $\mu$ m) max. 5%

Fine Granular 16/40

On No. 40 (420  $\mu$ m) max. 5% Through No. 100 (149  $\mu$ m) max. 5%

Powder

On No. 60 (250  $\mu$ m) max. 5% Through No. 200 (74  $\mu$ m) min. 65%

#### Uses

As an acidulant, flavor 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.