

S.A. Citrique Belge N.V.

Product Data Sheet

Citric Acid Solutions Food Grade

Description

Citric Acid Solutions Food Grade are clear aqueous solutions of citric acid, practically colourless, with a strong acid taste.

Product identification

Product codes:

Solution 46%: 04 3300 4

Solution 47%: 04 8046 0

Solution 50%: 04 3302 0

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

Synonyms: citric acid

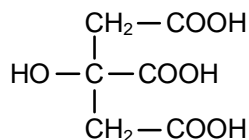
CAS No.: 77-92-9

EINECS: 201-069-1

E No: E 330

Empirical formula: C₆H₈O₇

Molecular mass: 192.12 g/mol



Specifications

Appearance:	clear, practically colourless solutions
Identity:	corresponds
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. 5 ppm
Barium:	max. 1 ppm
Calcium:	max. 20 ppm
Magnesium:	max. 1 ppm
Aluminium:	max. 0.2 ppm
Chlorides:	max. 5 ppm

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Sulphates:	max. 50 ppm
Oxalates:	max. 10 ppm
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. 97%
Assay (anhydrous):	46–50%,

NOTE: ppm = mg per kg citric acid

Solubility

Citric Acid Solutions Food Grade are freely miscible with water in all proportions.

Stability and storage

Citric Acid Solutions Food Grade should be stored in well-closed containers of a suitable stainless steel.

Solutions 46–50% may be stored for twelve months from the date of manufacture at a temperature not below 5 °C (to avoid crystallization) and not above 30 °C (to minimize evaporation).

At their original concentrations, the solutions do not permit the growth of micro-organisms.

Uses

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

Compendial compliance

Citric Acid Solutions Food Grade meet all requirements of the USP, FCC, Ph. Eur. and JP when tested according to these compendia.

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

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Safety

These products are safe for the intended use. Avoid contact with eyes and prolonged contact with skin by applying suitable protective measures and personal hygiene.

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene.

For full safety information and necessary precautions, please refer to the respective 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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