

Monosodium Citrate Anhydrous

Description

Monosodium Citrate Anhydrous consists of colourless crystals or a white, crystalline powder, practically odourless, with a slightly acid taste.

Product identification

Product codes:

Granular: 04 1257 0

Powder: 04 1256 2

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

Synonyms: monosodium citrate; citric acid, monosodium salt; sodium citrate

CAS No.: 18996-35-5

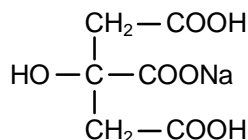
EINECS No.: 242-734-6

E No: E 331 (i)

INCI name: sodium citrate

Empirical formula: C₆H₇NaO₇

Molecular mass: 214.11 g/mol



Specifications

Appearance:	colourless crystals or white, crystalline powder
Identity:	corresponds
pH (aqueous solution 1%):	3.5–3.8
Loss on drying:	max. 0.1%
Extraneous matter:	passes test
Heavy metals:	max. 1 ppm
Arsenic:	max. 1 ppm
Lead:	max. 1 ppm
Mercury:	max. 1 ppm
Copper:	max. 1 ppm
Zinc:	max. 1 ppm
Iron:	max. 5 ppm
Barium:	max. 1 ppm
Calcium:	max. 50 ppm

S.A. Citrique Belge N.V.

Product Data Sheet

Magnesium:	max. 2 ppm
Chlorides:	max. 5 ppm
Sulphates:	max. 30 ppm
Oxalates:	max. 10 ppm
Readily carbonizable substances:	passes test
Colour (250 g/L, T at 366 nm, 1 cm):	min. 92%
Assay:	99.5–100.5% (on dry substance)

Fineness (US standard sieves):

Granular

On No. 40 (420 µm) max. 10%

Through No. 200 (74 µm) max. 30%

Powder

On No. 60 (250 µm) max. 5%

Through No. 200 (74 µm) min. 65%

Solubility

Monosodium Citrate Anhydrous is freely soluble in water, and very slightly soluble in ethanol.

Stability and storage

Monosodium Citrate 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.

Monosodium Citrate Anhydrous has a tendency to compaction. However, the lumps so formed can be broken with light to moderate pressure if the problem is detected early. Permitting the product to remain lumpy for long periods could result in irreversible caking.

It is highly recommended to have a low inventory and not to stack the pallets.

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

Uses

Imparts a cool and saline taste to beverages. Acts as a buffer in combination with free acid in beverages and jellies.

For solid and liquid pharmaceutical preparations, especially effervescent tablets.

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.

S.A. Citrique Belge N.V.

Product Data Sheet

Compendial compliance

Monosodium Citrate Anhydrous meets all requirements of JECFA.

Safety

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.

S.A. Citrique Belge N.V.
Pastorijstraat 249
B-3300 Tienen, Belgium
V.A.T. BE 400.934.652
HR Leuven 1640

Tel.: +32 (0) 16 806 211
Fax: +32 (0) 16 806 611
Internet www.citriquebelge.com