

S.A. Citrique Belge N.V.

Product Data Sheet

Trisodium Citrate Dihydrate

Description

Trisodium Citrate Dihydrate consists of colourless crystals or a white, granular powder, practically odourless, with a saline taste.

Product identification

Product codes:

Granular: 04 1250 3

Fine Granular: 04 1232 5

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

Synonyms: trisodium citrate dihydrate; citric acid, trisodium salt, dihydrate; sodium citrate dihydrate

CAS No.: 6132-04-3

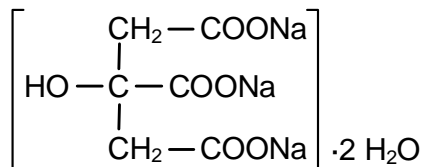
EINECS No.: 200-675-3

E No: E 331 (iii)

INCI name: sodium citrate

Empirical formula: C₆H₅Na₃O₇ · 2 H₂O

Molecular mass: 294.10 g/mol



Specifications

Appearance:	colourless crystals or white, granular powder
Identity:	corresponds
pH (aqueous solution 5%):	8.0–8.7
Water (K. Fischer):	12.15–12.50%
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. 5 ppm
Calcium:	max. 20 ppm

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Magnesium:	max. 2 ppm
Chlorides:	max. 5 ppm
Sulphates:	max. 30 ppm
Oxalates:	max. 10 ppm
Tartrates:	max. 5 ppm
Acidity or alkalinity:	passes test
Readily carbonizable substances:	passes test
Colour (250 g/L, T at 366 nm, 1 cm):	min. 92%
Assay:	99.7–100.3%

Fineness (US standard sieves):

Granular

On	No. 16	(1190 µm)	max. 5%
Through	No. 40	(420 µm)	max. 10%

Fine Granular

On	No. 30	(595 µm)	max. 5%
Through	No. 100	(149 µm)	max. 5%

Solubility

Trisodium Citrate Dihydrate is freely soluble in water, and practically insoluble in ethanol.

Stability and storage

Trisodium Citrate Dihydrate 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.

The stacking of the Fine Granular form for long periods is not recommended.

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

Uses

For solid and liquid food preparations.

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

Trisodium Citrate Dihydrate meets all requirements of the USP, FCC and Ph. Eur. when tested according to these compendia.

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Trisodium Citrate Dihydrate is classified as a GRAS (Generally Recognized As Safe) substance following the US Food and Drug Administration (FDA).

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 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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