

Product Data Sheet

Trisodium Citrate Dihydrate

Version: PDS Trisodium Citrate Dihydrate Version 06	Issue date: 01/02/2019	Supersedes versions: 01/10/2015
Reason for issue: 3-yearly update		PDS 04 12503 Version 05 Trisodium Citrate Dihydrate Granular PDS 04 12325 Version 05 Trisodium Citrate Dihydrate Fine Granular

Appearance

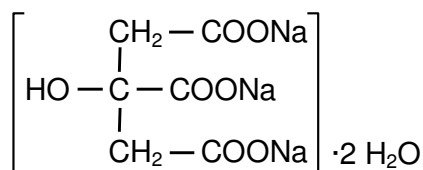
Trisodium Citrate Dihydrate consists of colourless crystals or a white, granular to fine powder, practically odourless, with a saline taste.

Product identification

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:	C ₆ H ₅ Na ₃ O ₇ · 2H ₂ O
Molecular mass:	294.10 g/mol



Specifications

Odour	odourless	Barium	< 5 ppm
Identification	meets requirements	Copper	< 1 ppm
Water (K. Fischer)	12.15 – 12.50 %	Zinc	< 1 ppm
Extraneous matter	passes test	Iron	< 5 ppm
pH (aqueous solution 5%)	8.00 – 8.70	Calcium	< 20 ppm
Colour (250 g/L, T at 366 nm, 1 cm)	92.00 – 100.00 %	Magnesium	< 2 ppm
Appearance of solution	meets EP requirements (visual test)	Aluminium	< 0.2 ppm
Clarity of solution	meets requirements	Chlorides	< 5 ppm
Colour of solution	meets requirements (colour:%T)	Sulphates	< 30 ppm
Readily carbonizable substances RCS	meets requirements	Oxalates / oxalic acid	< 10 ppm
Heavy metals (sum: Cd, Cr, Cu, Pb, Hg, Zn, Ni)	< 1 ppm	Tartrates	< 5 ppm
Arsenic	< 1 ppm	Assay	99.70 – 100.30 %
Lead	< 1 ppm	Acidity or alkalinity	meets requirements
Mercury	< 1 ppm	Bulk density (on request)	900 – 1100 g/l

Fineness (ISO standard sieves) / MESH					Product Code
Granular					04 12503
On	No.	16	(1180 µm) max.	5%	
Through	No.	40	(425 µm) max.	10%	
Fine Granular					04 12325
On	No.	30	(600 µm) max.	5%	
Through	No.	100	(150 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 packaging (bags and big bags). 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 period is not recommended.

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

Uses

- For solid and liquid food preparations.
- For personal care products.
- 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, Ph. Eur., JP, JECFA and the Commission regulation (EC) No 231/2012 when tested according to the latest versions of these compendia.

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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VAT number	BE0405317567	NL001375945B01
recall procedure available	Yes	
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QUALITY SYSTEMS		
ISO 9001	Yes	Yes
ISO 14001	Yes	Yes
ISO 22000	Yes	Yes
FSSC 22000	Yes	Yes
GMP+ -feed	Yes	Yes
OHSAS18001	-	Yes
ESAD	Yes	Yes
other	-	AEO