

# Product Data Sheet

## Trisodium Citrate Dihydrate

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

### Appearance

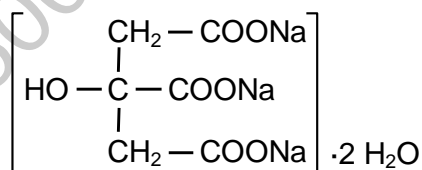
Trisodium Citrate Dihydrate consists of colourless crystals or a white, granular to fine powder, practically odourless, with a saline taste.

### 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

<b>CAS No.:</b>	6132-04-3
<b>EINECS No.:</b>	200-675-3
<b>E No.:</b>	E 331 (iii)
<b>INCI name:</b>	Sodium citrate
<b>Empirical formula:</b>	C <sub>6</sub> H <sub>5</sub> Na <sub>3</sub> O <sub>7</sub> · 2H <sub>2</sub> O
<b>Molecular mass:</b>	294.10 g/mol



### Specifications

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

Fineness (ISO standard sieves) / MESH					Product Code
<b>Granular</b>					<b>04 12503</b>
On	No.	16	(1180 µm) max.	5%	
Through	No.	40	(425 µm) max.	10%	
<b>Fine Granular</b>					<b>04 12325</b>
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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