



Manufacturer: Shandong Ensign Industry Co., Ltd.
Produced for Niran Europe B.V.



Europe

ENSIGN

Technical Data Sheet

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Product Name: Trisodium Citrate Dihydrate BP/USP/FCC/E331

Product Identification

Chemical name: 2-hydroxy-1,2,3-propanetricarboxylic acid trisodium salt
Synonyms: Trisodium citrate dihydrate - Citric Acid Trisodium salt - Sodium Citrate Dihydrate
E no.: E331
CAS no.: 6132-04-3
EIN ECS No.: 200-675-3
I NCI name: Sodium Citrate
Chemical formula: $C_6H_5Na_3O_7 \cdot 2H_2O$
Molecular mass: 294.1 grams / mol

Applicable for article numbers:

Article no.	Description	Mesh size	Particle Size	Packaging
20031	TSC Granular	12-40	(0.425-1.700) mm	25kg PE heavy film bags
20033	TSC Granular	12-40	(0.425-1.700) mm	1.000kg PP woven Big Bags
20041	TSC Fine Granular	30-100	(0.150-0.600) mm	25kg PE heavy film bags

Parameter	Standard
Characters	White or almost white, crystalline powder or granular crystals. Slightly deliquescent in moist air. Freely soluble in water, practically insoluble in ethanol.
Identification	Passes Test
Appearance of Solution	Passes Test
Assay	99.0%-100.5%
Water	11.0%-13.0%
Readily Carbonisable Substances	Passes Test
Acidity or Alkalinity	Passes Test
pH (5% aqueous solution)	7.5-9.0
Sulfates	$\leq 150\text{mg/kg}$
Oxalates	$\leq 100\text{mg/kg}$
Chlorides	$\leq 50\text{mg/kg}$
Lead	$\leq 1\text{mg/kg}$
Arsenic	$\leq 1\text{mg/kg}$
Mercury	$\leq 1\text{mg/kg}$
Heavy Metals	$\leq 10\text{mg/kg}$
Tartrate	Passes test
Pyrogen	Passes test

Application

Sodium citrate is used as flavors, stabilizing agent, buffering agent, chelating agent, nutritional supplement of buttermilk, emulsifying agent and flavoring agent in food and beverage industry; it can be used as anti-blood clotting, apophlegmatisant and diuretics in pharmaceutical industry; it can replace sodium tripolyphosphate as a non-toxic detergent additives in detergent industry; it can also be used in brewing, injection, photography drugs, electroplating etc.

Storage: Store in tightly closed original container in a dry, cool, well-ventilated place.

Shelf Life: Three years.

Shandong Ensign Industry Co., Ltd.
No.1567, Changsheng Street,
Changle, Weifang,
262499, Shandong, China
Tel: +86-536-6298125
Fax: +86-536-6234587
E-mail: sales@ensignworld.com

Niran Europe BV
Meerten Verhoffstraat 3
4811 AR Breda
The Netherlands
Tel: +31 76 2055250
Email: info@niran.eu
www.niran.eu