Trisodium Citrate Dihydrate

Product Information

Cargill Trisodium Citrate Dihydrate is manufactured by neutralizing citric acid derived from a submerged fermentation process. Cargill Trisodium Citrate is produced in accordance with current Good Manufacturing Practices (GMP’s) under a comprehensive HACCP (Hazard Analysis and Critical Control Points) program.

Trisodium Citrate Dihydrate is considered “GRAS” (Generally Recognized As Safe) by the United States Food and Drug Administration without restriction as to the quantity of use within good manufacturing practice. Trisodium Citrate Dihydrate is also considered by the Experts Committee of the FAO/WHO to be a safe food additive without limitation according to good manufacturing practice.

Cargill Trisodium Citrate Dihydrate is manufactured to meet the monograph specifications of major world codex and pharmacopoeia standards including the USP, FCC, BP, EP, FAO/WHO and is certified Kosher Pareve, Kosher for Passover, and Halal.

Cargill Trisodium Citrate Dihydrate is available as translucent white crystals and has a slight saline taste. Water of crystallization constitutes approximately twelve percent by weight of the dihydrate form.

Trisodium Citrate Dihydrate

Molecular Formula: C$_6$H$_5$O$_7$Na$_3$ • 2 H$_2$O
Molecular Weight: 294.10
CAS Number: 6132-04-3
E-NR: E 331
EINECS: 20-06-753

Product Specifications

| Assay (%)  | Not less than 99.0 (anhydrous basis) |
| Water (%)  | 10.0 – 13.0                          |
| Identification | Positive for sodium and citrate    |
| Alkalinity | Passes USP and FCC tests            |
| Tartrate   | Passes USP test                      |
| Heavy Metals (as Pb) | Not more than 10mg/kg |
| Lead       | Passes FCC test                      |

Particle Size Distribution

- **Granular**: Max. 3% on U.S. No. 16 sieve
  Max. 3% through U.S. No. 80 sieve
- **Fine Granular**: Max. 1% on U.S. No. 30 sieve
  Max. 10% through U.S. No. 100 sieve

Bulk Densities (lbs/ft$^3$)

- **Granular**: 60
- **Fine Granular**: 58

Packaging

- 25 Kg: Polyethylene-lined multiwall paper bags
- 50 lb (22.7 Kg): Polyethylene-lined multiwall paper bags
- 100 lb (45.4 Kg): Polyethylene-lined multiwall paper bags
- 1800-2400 lb (816.5-1088.6 Kg): Bulk bags

Shelf Life and Storage

We recommend that product held for more than 5 years be reevaluated for fitness of use. Trisodium Citrate Dihydrate should be stored in sealed containers under conditions of low temperature and low humidity to prevent caking.

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The above analyses are merely typical guides. They are not to be construed as being specifications. All of the above information is, to our best knowledge, true and accurate. However, since the conditions of use are beyond our control, all recommendations or suggestions are made without guarantee, express or implied on our part. We disclaim all liability in connection with the use of the information contained herein or otherwise, and all such risks are assumed by the user. Nothing contained herein shall be construed to infer freedom from patent infringement. We further expressly disclaim all warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE.

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