



Sodium Citrate Dihydrate, Fine Granular USP-NF/FCC (Excipient/Food Use Only) (Product Code: 042420)

TECHNICAL DATA & INFORMATION

Product Information

Sodium Citrate Dihydrate is derived from citric acid and is available in either free-flowing colorless granular or powder forms. It is odorless and freely soluble in water, but insoluble in alcohol. Sodium Citrate Dihydrate is the most broadly used emulsifying salt in sliced processed cheese products. It is commonly used as a buffering agent in combination with citric acid to provide precise pH control required in many food and beverage applications. In meat products it is used as an anticoagulant of fresh livestock blood and as a curing accelerator. The detergent-building and rapid biodegradability characteristics of sodium citrate enable its use as an environmentally acceptable phosphate substitute in a large variety of household cleaning products.

General Characteristics

Formula	Na ₃ C ₆ H ₅ O ₇ • 2H ₂ O
Appearance	White, fine, translucent crystals
Odor	None
Taste	Mild, Cool Saline taste
Molecular Weight	294.11
pH (5g/100ml at 25°C)	7.5-9.0
Solubility (g/100 ml at 25°C)	71 in Water Insoluble in Alcohol

Granulation (ADM)

On 30 USS Mesh (600µ)	1% maximum
Through 100 USS Mesh (150µ)	10% maximum

Standard Specifications

Identification	Meets USP-NF/FCC
Assay (anhydrous basis)	99.0 to 100.5%
Water	10.0 to 13.0%
Alkalinity	Meets USP-NF/FCC
Tartrate	Meets USP-NF
Heavy Metals (as lead)	Maximum 10.0 ppm
Lead	Maximum 2.0 ppm

Storage and Shelf Life

Storage at room temperature in tightly sealed containers, away from extreme conditions of heat and humidity, is recommended. This product is very stable and has been given a 3 year "best by" date. It is recommended to retest after 3 years. It is suggested that all products be used on a "First-In First-Out" basis.

Regulatory Status

This Food Additive complies with all the compendial requirements of the U.S. Pharmacopeia, Food Chemical Codex, Code of Federal Regulations, European Pharmacopoeia, British Pharmacopoeia, Japanese Pharmacopeia, and W.H.O. / F.A.O. Food Additive Specification.

Labeling

Sodium Citrate

Identification

CAS Number: 6132-04-03

Availability

ADM Sodium Citrate Dihydrate, Fine Granular is available in 50 lb. bags, 25 kg bags, 275 lb. drums.

Regulatory Data

Country of Origin: United States
GRAS Affirmation 21 CFR 184.1751

Lot Numbering Info

SYMMDDB (Ex: S508261= 8-26-2015)
S=Manufacturing location (Southport, NC)
Y= last digit of year
MM= month
DD= day of month
B= packaging bin number