



Potassium Citrate, Granular USP-NF/FCC (Excipient/Food Use Only) (Product Code: 092310)

TECHNICAL DATA & INFORMATION

Product Information

Potassium citrate is a highly soluble monohydrate salt, derived from citric acid and available as a crystalline granular material. Potassium citrate may be used as a partial or complete replacement for sodium citrate when reduced sodium or sodium free products are desired. Federal Standards of Identity for processed cheese allow the use of potassium citrate as an emulsifying salt. The substitution of potassium salt for sodium citrate will reduce the sodium content by 720 mg per 100 g product at 3% salt level. Potassium citrate will reduce sodium content in beverages, gelatin desserts, confections, jams and jellies. Potassium citrate may also be used as a source of potassium ion either as a nutritional supplement or to maximize gelation of kappa-carrageenan gels in applications such as surimi analogues.

General Characteristics

Formula	K ₃ C ₆ H ₅ O ₇ ·H ₂ O
Appearance	White coarse powder
Odor	None
Taste	Mild, Cool Saline taste
Potassium Content	36.1 – 37.2%
Molecular Weight	324.42
pH (5g/100ml at 25°C)	7.5-9.0
Solubility (g/100 ml at 25°C)	190 in Water Insoluble in Alcohol, Ether

Granulation (ADM)

On 16 USS Mesh (1180µ)	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	3.0 – 6.0%
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

This product is very hygroscopic and must be protected, during storage, from exposure to high temperatures and relative humidity. Storage below 75°F and 55% relative humidity in tightly sealed container is recommended. However, it is recommended to use the product within three years. Potassium citrate readily deliquesces in moist air. Adherence to the above storage conditions is highly recommended. Inspect product after six months of storage.

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

Potassium Citrate

Identification

CAS Number: 6100-05-06

Availability

ADM Potassium Citrate Granular is available in 50 lb. bags, 200 lb. drum and 1000 kg. totes.

Regulatory Data

Country of Origin: United States
GRAS Affirmation 21 CFR 184.1625

Lot Numbering Info

SYMMDDDB (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

Date Approved
2023-01-27

Version
4.0

Document #
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Allergen Information

The following major food allergens recognized under the US Food Allergen Labeling and Consumer Protection Act of 2004 (FALCPA) are not present in this product. This product is not manufactured with equipment that comes in contact with the listed allergens, nor do we have these allergens within the processing areas. Sulfur dioxide, which is considered a sensitizer, may be used in the manufacture of this product. Sulfiting agents will not be present in the finished product at detectable levels (<10mg/kg sulfite).

- cereals containing gluten
- peanuts and peanut products
- soybean and soy products
- tree nuts
- milk and dairy products
- wheat and wheat products
- crustaceans, mollusks and their products
- egg and egg products
- fish and fish products
- other allergens such as buckwheat, celery, cottonseed, mustard, mustard seed, rice, lupin, sesame seed and sunflower seeds

Nutrition Information (per 100g product)

Nutrient:	
Total Calories	145 Kcal
Calories from Saturated Fat	0 Kcal
Total Fat	0 g
Saturated Fat	0 g
Trans Fat	0 g
Polyunsaturated Fat	0 g
Monounsaturated Fat	0 g
Cholesterol	0 mg
Total Carbohydrates	58.8 g
Total Sugars	0 g
Sugar Alcohols	0 g
Other Carbohydrates	0 g
Dietary Fiber	0 g
Soluble Fiber	0 g
Insoluble Fiber	0 g
Protein	0 g
Calcium	0.3 mg
Iron	0.04 mg
Potassium	36,200 mg
Sodium	30 mg
Moisture	5 g

Other Essential Vitamins and Minerals:

Thiamine	0 mg
Riboflavin	0 mg
Niacin	0 mg
Vitamin D	0 mg
Vitamin E	0 mg alpha-tocopherol
Vitamin B ₆	0 mg
Folic Acid	0 µg DFE
Vitamin B ₁₂	0 µg
Vitamin A	0 µg RAE
Vitamin C	0 mg

There have been no sugars added during the production process. The total sugars value represents the sugars in this finished ingredient. ADM is not listing added sugars on technical documents to lessen confusion for formulators when calculating their Nutrition Facts panel information.

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