

# **SORBOGEM® 712 Crystalline Sorbitol NF/FCC**

SORBOGEM® 712 Crystalline Sorbitol 261054 is one of the most widely used polyols in the food, confectionery, pharmaceutical and industrial markets. Typical functionality is as a cryoprotectant, crystallization inhibitor, freeze point depressant, plasticizer, humectant and excipient.

## **Chemical and Physical Properties**

| (NF/FCC)                    | Min.   | Max.       |
|-----------------------------|--------|------------|
| Water, %                    | -      | 1.5        |
| Assay, % d.b. D-Sorbitol    | 91.0   | 100.5      |
| Reducing Sugars*, mL        | 12.8   | -          |
| Identification A            |        | Conforms   |
| Identification B            |        | Conforms   |
| Residue on ignition, % d.b. | -      | 0.1        |
| Lead, ppm                   | -      | 1          |
| Nickel, ppm                 | -      | 1          |
| pH, (10% w/w in water)      | 3.5    | 7.0        |
| *D   (22   NT   120         | (005 ) | 1: 11: 16: |

\*Based on a sample wt. of 3.3 g NLT 12.8mL of 0.05 N sodium thiosulfate, (NMT 0.3% as glucose)

| Properties                       | Typical            |
|----------------------------------|--------------------|
| Relative Sweetness (vs. sucrose) | 60%                |
| Hygroscopicity                   | High               |
| Caloric Value                    | 2.6 kcal/g, d.b.   |
| Solubility @25°C                 | 235 g/100 mL water |
| Heat of Solution                 | -26.5 kcal/g       |
| Melting Point Range              | 99-101°C           |
| Molecular Weight                 | 182 g/mol          |

| Screen lest                         | Typical |
|-------------------------------------|---------|
| % on U.S.S. #30 mesh (590 micron)   | < 0.5   |
| %on U.S.S. #40 mesh (420 micron)    | < 5     |
| % thru U.S.S. #200 mesh (74 micron) | < 35    |

## **Sensory Data**

Odor No detectable foreign odor Flavor Clean sweet taste

| Microbiological Standards            | Max. |
|--------------------------------------|------|
| Total Aerobic Microbial Count, cfu/g | 1000 |
| Total Combined Yeast and Mold, cfu/g | 100  |

| Nutritional Data/100g Calories Total Fat, g Sodium, mg Total Carbohydrate, g Dietary Fiber, g Total Sugars, g Added Sugars, g Sugar Alcohols, g Protein, g Vitamin D, mcg Calcium mg Iron, mg | Typical 259 <0.1* <1* 99.7 0 <0.1* 0 99.7 <0.1* 0 <1* |
|---|---|
| Potassium, mg<br>Ash, %   | <5*<br><0.1*  |
|   |   |

Effective Date: August 22, 2023

\*Not present at level of quantification

Next Review August 22, 2026

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## Certification

Kosher Pareve

## Packaging and Storage

Bulk bags Drums

Recommended storage temperature is 50°F-100°F (10°C-38°C). Storage at elevated temperature may result in caking of the sorbitol which would affect ease of handling.

#### Shelf Life

Shelf life is 2 years. Retest every 24 months for water, reducing sugars and assay.

## Regulatory Data

CAS No. 50-70-4

#### **United States**

Meets NF (National Formulary) and FCC (Food Chemical

Codex) requirements.

**GRAS Affirmation** 21 CFR 184.1835

Labeling Sorbitol

#### Canada

Food Additive

Sorbitol Labeling

### Features and Benefits

White crystalline powder

Free flowing

Cryoprotectant and freezing point depressant

Sugar Free bulking

Non-browning

Non-cariogenic

60% as sweet as sucrose

Pleasant cooling effect

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