

Cleardex® 25/42 IX Corn Syrup

Product Information

Cargill's Cleardex® 25/42 IX Corn Syrup is a demineralized, low D.E. acid enzyme converted corn syrup. Its low protein and mineral contents make it ideal for applications such as infant formula and pharmaceuticals in which nutrient control is desired. Its low dextrose content yields minimal sweetness and low hygroscopicity, making it ideal for spray drying, coating, and bulking applications. It also contributes to nutritive solids, body, mouthfeel, and crystallization control in many applications such as dairy, ice cream, and meats.

REPRESENTATIVE CHEMICAL AND PHYSICAL DATA

Chemical and Physical Properties

Dextrose Equivalent (DE)	23 – 27
Baumé, Comm (140°/60°+1)	41.7 – 42.3
Refractive Index (45°C)	1.4880 – 1.4912
Total Solids (%)	77.5– 78.7
Moisture (%)	21.3 – 22.5
Sulfated Ash (%)	0.05 max
pH (1:1)	4.0 – 6.0
Sulfur Dioxide (ppm)	3 max
Conductivity (30% DS)	65 micromhos
Calories/100g	312
Sodium (ppm)	200 max

Typical Carbohydrate Profile

(% Dry Basis)	
Dextrose	7
Maltose	8
Maltotriose	11
Higher Saccharides	74

Microbiological Limits

Mesophilic Bacteria	1,000 cfu/10g max
Yeast	100 cfu/10g max
Mold	100 cfu/10g max

Sensory Characteristics

Appearance	Clear Liquid
Taste	Sweet, Bland
Odor	Characteristic

Density and Viscosity Factors

Temp (°F)	Specific Gravity (Temp°F/60°F)	Pounds/ Gallon (Temp°F)	Pounds/ Gallon (DSB)	Viscosity (cP)
80	1.4125	11.78	9.20	160,000
90	1.4094	11.75	9.18	82,000
100	1.4062	11.72	9.16	40,000
110	1.4029	11.70	9.13	23,000
120	1.3996	11.67	9.11	13,000
140	1.3927	11.61	9.07	5,000

Regulatory/Labeling Data

United States	
GRAS Affirmation	CFR 21 184.1865
Labeling	Corn Syrup
Canada	
FDR	B.18.016
Labeling	Glucose Syrup; Glucose

Shelf Life and Storage

The recommended storage temperature range for Cleardex® 25/42 IX Corn Syrup 110 - 130°F. Syrups stored for extended periods (over 6 months) should be evaluated periodically for fitness of use.

contact

Sweeteners Regional Offices

2173 Embassy Drive Lancaster, PA 17603 Tel: 800-734-8215 Fax: 717-431-3120	400 E. Diehl Road, Suite 330 Naperville, IL 60563 Tel: 800-344-1633 Fax: 630-505-7846
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Updated 15-Aug-12

Cleardex[®] 25/42 IX Corn Syrup

Nutritional Information

Nutritional Profile

The following typical information may be of use in answering questions regarding ingredients in corn sweeteners. Unless specified otherwise, all values are reported on a commercial or "as is" basis.

Nutrient	Amount	Nutrient	Amount
Calories	312 cal/100 g	Cadmium	< 0.05 mg/100 g
Moisture	21.9 g/100 g	Caffeine	< 0.50 mg/100 g
Protein	0.01 g/100 g	Calcium	< 1.0 mg/100 g
Ash	0.05 g/100 g	Chloride	< 30 mg/100 g
Total Carbohydrate	78.1 g/100 g	Chromium	< 0.05 mg/100 g
Simple Sugar* (DSB**)	15.0 g/100 g	Copper	< 0.10 mg/100 g
Total Fat	< 0.10 g/100 g	Fluoride	< 0.10 mg/100 g
Dietary Fiber	< 0.10 g/100 g	Iron	< 0.05 mg/100 g
Cholesterol	< 0.10 mg/100 g	Lead	< 0.01 mg/100 g
Trans Fatty Acid	< 0.10 g/100 g	Magnesium	< 5.0 mg/100 g
Biotin	< 0.01 mg/100 g	Manganese	< 0.05 mg/100 g
Niacin	< 0.05 mg/100 g	Mercury	< 0.01 mg/100 g
Pantothenic Acid	< 0.30 mg/100 g	Molybdenum	< 0.10 mg/100 g
Riboflavin	< 0.01 mg/100 g	Phosphorus	< 0.01 mg/100 g
Thiamin	< 0.05 mg/100 g	Potassium	< 0.05 mg/100 g
Vitamin A	< 15 IU/100 g	Selenium	< 0.10 mg/100 g
Vitamin B ₆	< 0.05 mg/100 g	Sodium	< 20 mg/100 g
Vitamin B ₁₂	< 0.30 mg/100 g	Sulfur Dioxide	< 0.30 mg/100 g
Vitamin C	< 0.05 mg/100 g	Zinc	< 1.0 mg/100 g
Arsenic	< 0.10 mg/100 g		

* DP₁ + DP₂

** Dry Solids Basis

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Updated 15-Aug-12