

Cleardex® 36/43 Corn Syrup

Product Information

Cargill's Cleardex® 36/43 Corn Syrup is a pure, low D.E. acid-enzyme converted corn syrup. It is quite bland in flavor and is used where minimal sweetness is required. Properties such as heat shock stability, bodying power and crystallization control make Cleardex® 36/43 Corn Syrup an ideal choice for use in products such as ice cream, frozen novelties, and chips.

REPRESENTATIVE CHEMICAL AND PHYSICAL DATA

Chemical and Physical Properties

Dextrose Equivalent (DE)	34 – 38
Baumé, Comm (140°/60°+1)	42.7 – 43.3
Refractive Index (45°C)	1.4925 – 1.4958
Total Solids (%)	79.8 – 81.0
Moisture (%)	19.0 – 20.2
Sulfated Ash (%)	0.4 max
Protein (%)	0.05
pH (1:1)	4.5 – 5.3
Sulfur Dioxide (ppm)	40 max
Conductivity (30% DS)	1000 micromhos
Calories/100g	320

Typical Carbohydrate Profile

(% Dry Basis)

Dextrose	14
Maltose	11
Maltotriose	10
Higher Saccharides	65

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	1.4265	11.89	9.57	132,000
90	1.4234	11.87	9.54	78,500
100	1.4202	11.84	9.52	35,500
110	1.4169	11.81	9.50	18,500
120	1.4136	11.79	9.48	8,700
140	1.4068	11.73	9.43	3,100

Regulatory/Labeling Data

United States	
GRAS Affirmation Labeling	CFR 21 184.1865 Corn Syrup

Canada	
FDR Labeling	B.18.016 Glucose Syrup; Glucose (contains sulphites)

Shelf Life and Storage

The recommended storage temperature range for Cleardex® 36/43 Corn Syrup is 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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Cleardex[®] 36/43 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	320 cal/100 g	Cadmium	< 0.05 mg/100 g
Moisture	19.6 g/100 g	Caffeine	< 0.50 mg/100 g
Protein	0.05 g/100 g	Calcium	< 10 mg/100 g
Ash	0.30 g/100 g	Chloride	< 150 mg/100 g
Total Carbohydrate	80.1 g/100 g	Chromium	< 0.05 mg/100 g
Simple Sugar* (DSB**)	25.0 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	< 0.30 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	< 0.05 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	< 0.10 mg/100 g
Vitamin A	< 15 IU/100 g	Selenium	< 0.10 mg/100 g
Vitamin B ₆	< 0.05 mg/100 g	Sodium	< 100 mg/100 g
Vitamin B ₁₂	< 0.30 mg/100 g	Sulfur Dioxide	< 4.0 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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