

Clearbrew® 43% IX High Maltose Liquid Adjunct

Product Information

Cargill's Clearbrew® 43% IX High Maltose Liquid Adjunct is a pure, food grade liquid brewing adjunct used for the production of full-bodied beers. Its unique carbohydrate profile, i.e., high maltose and low dextrose levels, is ideally suited for the brewer looking for an adjunct to match wort from malt. Clearbrew® 43% IX High Maltose Liquid Adjunct has been demineralized to provide the brewer with a color-stable adjunct that contains low levels of salt and SO₂ to meet the quality standards of the brewing industry.

REPRESENTATIVE CHEMICAL AND PHYSICAL DATA

Chemical and Physical Properties

Baumé, Comm (140°/60°+1)	42.7 – 43.3
Refractive Index (45°C)	1.4923 – 1.4956
Total Extract (%)	80.4 – 81.6
Moisture (%)	18.4 – 19.6
Sulfated Ash (%)	0.05 max
pH (1:10)	4.0 – 6.0
Sulfur Dioxide (ppm)	3 max
Conductivity (30% DS)	65 micromhos
Calories/100 g	324
Sodium (ppm)	200 max

Typical Carbohydrate Profile

(% Dry Basis)	
Dextrose	12
Maltose	43
Maltotriose	20
Higher Saccharides	25
Total Fermentables (DP1 + DP2 + DP3)	73 – 77

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	1.4260	11.89	9.63	54,000
90	1.4228	11.86	9.61	22,000
100	1.4197	11.84	9.59	11,500
110	1.4164	11.81	9.57	6,500
120	1.4131	11.78	9.54	4,200
140	1.4064	11.73	9.50	1,600

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 Clearbrew® 43% IX High Maltose Liquid Adjunct 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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Clearbrew[®] 43% IX High Maltose Liquid Adjunct

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	324 cal/100 g	Cadmium	< 0.05 mg/100 g
Moisture	19.0 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	81.0 g/100 g	Chromium	< 0.05 mg/100 g
Simple Sugar* (DSB**)	55.0 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	< 0.05 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	< 0.3 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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