

Clearbrew® 60/44 IX Liquid Adjunct

Product Information

Cargill's Clearbrew® 60/44 IX Liquid Adjunct is a pure, food grade, clear liquid brewing adjunct used for the production of full-bodied beers. Clearbrew® 60/44 IX Liquid Adjunct has been demineralized, providing the brewer a color-stable adjunct with low levels of salt and SO₂. Clearbrew® 60/44 IX Liquid Adjunct is manufactured by an acid-enzyme process specifically to meet the quality standards of the brewing industry.

REPRESENTATIVE CHEMICAL AND PHYSICAL DATA

Chemical and Physical Properties

Refractive Index (45°C)	1.4974 – 1.5007
Total Extract (%)	83.4 – 84.6
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	335
Sodium (ppm)	200 max

Typical Carbohydrate Profile

(% Dry Basis)

Dextrose	31
Maltose	36
Maltotriose	10
Higher Saccharides	23
Total Fermentables (DP1 + DP2 + DP3)	75-79

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	1.4398	12.00	10.08	120,000
90	1.4366	11.98	10.06	54,000
100	1.4335	11.95	10.04	22,000
110	1.4302	11.92	10.02	13,000
120	1.4270	11.90	9.99	6,500
140	1.4203	11.84	9.95	3,000

Regulatory/Labeling Data

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

Shelf Life and Storage

The recommended storage temperature range for Clearbrew® 60/44 IX 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[®] 60/44 IX 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	336 cal/100 g	Cadmium	< 0.05 mg/100 g
Moisture	16.0 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	84.0 g/100 g	Chromium	< 0.05 mg/100 g
Simple Sugar* (DSB**)	67.0 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	< 0.50 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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