

Clearbrew® 63/44 Liquid Adjunct

Product Information

Cargill's Clearbrew® 63/44 Liquid Adjunct is a pure, food grade liquid brewing adjunct which has a high concentration of fermentable sugars. Clearbrew® 63/44 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)	1.4969 – 1.5002
Total Extract (%)	83.4 – 84.6
Sulfated Ash (%)	0.4 max
Protein (%)	0.07
pH (1:10)	4.5 – 5.3
Sulfur Dioxide (ppm)	40 max
Conductivity (30% DS)	1000 micromhos
Calories/100g	335

Typical Carbohydrate Profile

(% Dry Basis)

Dextrose	36
Maltose	31
Maltotriose	13
Higher Saccharides	20
Total Fermentables (DP1+DP2+DP3)	78-82

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	1.4399	12.01	10.08	110,000
90	1.4368	11.98	10.06	51,000
100	1.4336	11.95	10.04	20,000
110	1.4304	11.93	10.02	12,500
120	1.4271	11.90	9.99	6,000
140	1.4204	11.84	9.95	2,500

Regulatory/Labeling Data

United States

GRAS Affirmation Labeling	CFR 21 184.1865 Corn Syrup
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Canada

FDR Labeling	B.18.016 Glucose Syrup; Glucose (contains sulphites)
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Shelf Life and Storage

The recommended storage temperature range for Clearbrew® 63/44 Liquid Adjunct is 110 - 130°F. Syrups stored for extended periods (over 6 months) should be evaluated periodically for fitness of use.

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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 16-Aug-12

Clearbrew[®] 63/44 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	335 cal/100 g	Cadmium	< 0.05 mg/100 g
Moisture	16.0 g/100 g	Caffeine	< 0.50 mg/100 g
Protein	0.07 g/100 g	Calcium	< 10 mg/100 g
Ash	0.30 g/100 g	Chloride	< 150 mg/100 g
Total Carbohydrate	83.7 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	< 0.30 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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