

TENTATIVE  
PRODUCT SPECIFICATIONS & TECHNICAL DATA  
**4335**

LIQUID CARAMEL COLOR, CLASS IV – E150d  
CAS No: 8028-89-5 / EINECS: 232-435-9

**Description**

According to Title 21 CFR 73.85, the color additive Caramel is the dark brown liquid or solid material resulting from the carefully controlled heat treatment of food-grade carbohydrates. Certain food-grade acids, alkalis and salts may be employed to assist caramelization.

**Ingredients list:** Caramel Color  
**Labelling:** Caramel Color, Caramel

**Organoleptic properties**

**Appearance:** Dark brown, fluid liquid  
**Odor:** Typical  
**Taste:** Characteristic bitter, burnt sugar taste

**Chemical / Physical properties – Specifications (as manufactured)**

**Tinctorial Power:** 0.320 – 0.350 (560 nm, 0.1% solution), Absorbance units  
**pH:** 2.7-3.4 (as is)  
**Baume':** 29.0-30.5 @ 60°F (15.5°C)  
**Specific Gravity:** 1.250-1.266 @ 60°F (15.5°C)  
**4-Methylimidazole (4-Mel):** < 50 ppm

**Chemical / Physical properties - Indicative values**

**Color Intensity:** 0.195-0.220 (610 nm, 0.1 % solution), Absorbance units  
**Dry Matter:** 49.3%  
**Density:** 10.41-10.55 (lb/gal @ 60°F (15.5°C))

**Microbiological properties**

**Aerobic Plate Count:** < 200 cfu/g  
**Yeast:** < 10 cfu/g  
**Mold:** < 10 cfu/g  
**E. coli:** < 3 MPN/g  
**Salmonella:** Negative/25g

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### Heavy Metals

Arsenic:	< 0.1 ppm
Lead:	< 0.1 ppm
Mercury:	< 0.01 ppm
Cadmium:	< 0.1 ppm

### GMO / Genetically Engineered (GE) status

Non-GE: Verified by the Non-GMO Project.

### Raw Material

Carbohydrate source: Cane Sucrose Syrup

### Conformity & Use

Conformity: 21 CFR 73.85, 21 CFR 182.1235 (GRAS), Food Chemical Codex (FCC)  
Use: Follow Good Manufacturing Practices (GMPs)

### Packaging, Storage Conditions, Best Used within

Packaging: Food Grade: 5 gal containers, 55 gal drum and bulk  
Storage conditions: Cool and dry environment, not to exceed 80°F (26.7°C). Product should not be allowed to freeze.  
Best Used Within: 12 months from date of manufacture

### Allergens

No protein allergens present. Gluten-free by source. Sulfites present (as process reactants).

### Disclaimer

The information provided in this Product Specification & Technical Data document relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. All information and instructions provided in this Product Specification & Technical Data document are based on the current state of our knowledge at the latest revision date indicated. It is the responsibility of the user to be aware of and to follow the regulations applying to our product for its possession, handling and use.

Nutrition Data is compiled from the average analysis of typical batches of this product. It is the final user's responsibility to determine the nutritional content of their product. Nutrition Data is for guidance only.

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Nutrition Data (per 100g)	
Calories	70 Calories (kcal)
Kilojoules	292 Kilojoules (kJ)
Moisture	50.7 * g
<b>Total Fat</b>	0 * g
Saturated Fat	0 g
<i>Trans</i> Fat	0 g
Cholesterol	0 mg
Sodium	30 mg
<b>Total Carbohydrates</b>	34.7 * g
**Dietary Fiber	0 g
Total Sugars	5.9 g
Added Sugars	0 g
Protein	0 * g
<b>Total Nitrogen</b>	1.0 * g
<b>Total Sulfur</b>	3.9 * g
***Sulfite	<2800 ppm
Total Vitamins	0 mg
Vitamin A	0 mg
Vitamin C	0 mg
Vitamin D	0 mcg
Folic Acid	0 mcg
<b>Ash</b>	9.7 * g
Calcium	<2 mg
Iron	<1 mg
Potassium	3670 mg
Phosphorous	<1 mg
<b>* Total Analysis</b>	100.0 g

\*\* Does not meet FDA definition

\*\*\* See Sulfite Statement

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