



1203 HALL AVENUE ▪ RIVERSIDE ▪ CALIFORNIA ▪ 92509
T: 1(800) 988-OILS (951) 823-8490 ▪ F: (951) 823-8491

PRODUCT: Organic Palm Kernel Oil, Refined

QUALITY PARAMETERS

This product is produced and processed under hygienic conditions. Product is not irradiated, treated with sewer sludge, or produced with genetically modified materials.

PROCESS DESCRIPTION

This oil is extracted from the kernel of the fruit of organic cultivated palm tree *Elaeis guineensis*, by mechanical pressing, without the use of solvents or other chemical substances. Refining of the oil utilizes the USDA NOP approved processing aids Citric Acid and bleaching earth. These are not considered additives since they are removed during processing.

CHEMICAL and PHYSICAL PROPERTIES

Free Fatty Acid (% Palmitic) ≤ 0.1

Peroxide value at time of processing (mEq/kg) ≤ 1.0

Color Lovibond Red 5 $\frac{1}{4}$: ≤ 2.0

Slip melting point 26-30°C / 78 – 88°F

Iodine Value (wijjs) 16-20

Phosphorus (ppm) ≤ 3.0

Rancimat 130°C, 20 l/h ≥ 7.0

Flavor/Taste: Bland

Specific weight (g/cm³) 0.899 – 0.914

Refraction number (n_d⁵⁰) 1.448 – 1.452

Saponification value (mg/g) 230 – 254

Unsaponifiable matter (%) ≤ 1.0

Fatty acid composition

Caproic Acid C 6:0 <0.8

Caprylic Acid C 8:0 2.4 – 6.2

Capric Acid C10:0 2.6 - 5

Lauric Acid C12:0 48 ± 7

Myristic Acid C14:0 16 ± 2

Palmitic Acid C16:0 6.5 - 10

Stearic Acid C18:0 1.3 - 3

Oleic Acid C18:1 12 - 19

Linoleic Acid C18:2 1 – 3.5

C18:3 - C20:0 <1

Solid fat content (SFC) @ 50°F (10°C): 69±4 @ 68°F (20°C): 40±4 @ 77°F (25°C): 17±2 (30°C): 0-1

STORAGE

Cool ($\leq 70^{\circ}\text{F} / 21^{\circ}\text{C}$) and dry ($\leq 65\% \text{RH}$). Keep away from direct sunlight.

SHELF LIFE

18 months after production providing storage conditions are maintained.

CHARACTERISTICS

Even though it is extracted from the same fruit of the palm tree this oil presents different characteristics than palm oil. This oil is mainly composed by short chain fatty acids (C12:0 and C14:0) and presents important physical characteristics for specific products like: toiled soaps, cocoa butter substitutes etc.

LABEL DECLARATION

Organic Palm Kernel Oil

This specification was developed with utmost care based on up-to-date information available, but should also be scrutinized by the recipient. It does not release him from checking the quality of goods delivered with proper diligence.

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