



**Harrisons' Pet Products**  
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# Sunshine Factor®

A Sustainable Red Palm Fruit Oil

**PRODUCT:** Sunshine Factor®

**KOSHER CERTIFICATION:** Yes

**COUNTRY OF ORIGIN:** Varies, depending on season

## QUALITY PARAMETERS

This product is produced and processed under hygienic conditions. **Product is not irradiated or produced with genetically modified materials.**

## PRODUCT DESCRIPTION

This oil is extracted from the pulp of the fruit of the palm tree *Elaeis guineensis*. The palm trees are cultivated and the oil is physically extracted (by mechanical pressing) without the use of solvents or other chemical substances. Due to the natural antioxidants (tocotrienols) and their low content of linolenic acid (C18:3), this oil is very stable to oxidation. It is semi-solid at ambient temperature. Sometimes a phase separation occurs, which is due to its typical composition, with approximately 50% saturated fatty acids, 40% monounsaturated fatty acids and 10% polyunsaturated fatty acids.

## PHYSICAL PROPERTIES

**Smell:** Product specific, free from rancid and foreign smell

**Color:** Reddish-orange

**Taste:** Product specific, free from rancid and foreign taste

## PACKAGING AND STORAGE

**Kind of packing:** Packed into glass containers at a certified organic bottling facility.

**Storage conditions:** Store in a cool, dry place away from direct sunlight.

**Max. Shelf life:** 18 months after production

## NUTRITIONAL VALUES (100 G)

Energy	900 kcal/3790 kj
Carbohydrate	0 g
Protein	0 g
Total Fat	100 g
Saturates	49 g
Trans Fats	0 g
Fiber	0 g
Sodium	0 mg

## CHEMICAL PROPERTIES

Free Fat Acid (% Palmitic)	≤5
Peroxide Value (meq/kg)	≤6
Moisture and Impurities (%)	≤1
Melting Point (°C)	34-38
Iodine Value (wijjs)	51-55
DOBI	2-4
Phosphorus (ppm)	≤30
Iron (ppm)	≤10
Specific Weight (g/cm <sup>3</sup> )	0.891-0.899
Refraction Number (n <sub>D</sub> <sup>50</sup> )	1.454-1.456
Saponification Value (mg/g)	190-209
Unsaponifiable Matter (%)	≤1.2
Total Carotene (ppm)	500-1200

## SOLID FAT CONTENT

SFC at 10°C	50±3
SFC at 20°C	21±3
SFC at 25°C	12.5±2
SFC at 30°C	8±2
SFC at 35°C	5±2
SFC at 40°C	2.5±1.5
SFC at 45°C	<1

## FATTY ACID COMPOSITION

Lauric Acid	C12:0	<0.4
Myristic Acid	C14:0	0.5-2.0
Palmitic Acid	C16:0	35-47
Palmitoleic Acid	C16:1	<0.6
Stearic Acid	C18:0	3.5-6.5
Oleic Acid	C18:1	36-47
Linoleic Acid	C18:2	6.5-15
Linolenic Acid	C18:3	<0.5
Arachidic Acid	C20:0	<1
Trans Acid	—	Traces

Values are typical, for general information only, and are not to be construed as specifications. All descriptions, suggestions, and typical values supplied above are believed to be reliable, but Zoological Education Network shall incur no liability by reason of inaccuracies or omissions in this information. Purchaser assumes sole responsibility for ensuring that product supplied by Zoological Education Network is used in conformity with all applicable laws and regulations.