



Fairly Traded • Sustainable • Reliable • Renewable

MONGONGO/MANKETTI OIL

TECHNICAL DATA

Product Name:	Mongongo Oil, Manketti Oil
Botanical Name:	<i>Schinziophyton rautanenii</i>
INCI Name (USA)	Schinziophyton rautanenii Seed oil
CAS #	68956-68-3
EC #	273-313-5

Applications

The mongongo nuts are cold-pressed, without use of solvents or other chemicals. The extracted oil, with its hydrating, skin regenerating, and restructuring properties, is used in a range of skin and beauty products, including creams, lotions, sun care products, lip balms, massage oil, and body butter formulations at 5-10%. Mongongo oil is used by the !Kung bushmen of the Kalahari to cleanse and moisturize their skin, and – because mongongo oil is a natural sunscreen - protect it against the harsh desert environment.

Because of its eleostearic acid content, mongongo nut oil makes a superb shampoo and conditioner ingredient, as it forms a layer over hair fibers that protects against adverse environments.

General Properties

Fatty Acid Composition (Range of values)					
Palmitic acid	C 16:0	8-9%	Linoleic acid (omega 6)	C 18:2 (ω 6)	35-39%
Palmitoleic acid (omega 7)	C 16:1	<1%	α-linolenic acid (omega 3)	C 18:3 (ω 3)	25-30%
Heptadecanoic acid	C 17:0	<1%	Arachic acid	C 20:0	<1%
Stearic acid	C 18:0	6-7%	Heicosenoic acid	C 20:1	<1%
Oleic acid (omega 9)	C 18:1	16-19%	Behenic acid	C 22:0	<1%

Average Saturated Fatty Acids: 17% - palmitic and stearic

Average Monounsaturated Fatty Acids: 18% - oleic

Average Polyunsaturated Fatty Acids: 43% - almost entirely linoleic acid

- Appearance : Liquid at 25°C
- Color : Clear. bright yellow
- Odor : Low, Characteristic
- Taste : Characteristic
- Specific gravity : 0.910 – 0.930
- Refractive index : 1.48 – 1.49
- Iodine value : 120 - 140 g/100g
- Saponification Index: 192 mg (KOH/g)

Storage conditions

Due to the very high γ -tocopherol content, the oil is very stable. Shelf life 2-3 years.

Containers should be kept closed in order to minimize contamination. Store in a cool (<75° F), dry, well ventilated, place away from heat and light. Keep from extreme heat and away from all sources of ignition.

Note: Cool temperatures may result in coagulation of the fat molecules and appearance of "ghosts" in the oil. Slow and gentle reheating allows the "ghosts" to disappear.

Document prepared by:
Tris Lahti B.S., M.S.
Quality Assurance Manager
DLG Naturals, Inc.

This information is accurate to the best of our knowledge and was compiled through testing methods and with the assistance of our suppliers, harvesters and processors. This product was imported for external and/or cosmetic use only. We make no warranty, either expressed or implied, in the complete accuracy of the information listed herein. The data in this analysis is used only as an average for the solicitation of the aforementioned botanicals. Suggestions for the use and application of the products and guide formulations are given for informational purposes only and without commitment. DLG Naturals, Inc. does not assume any liability or risk involved in the use of its products as the conditions of use are beyond its control. The user of the products is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.