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## Product Specifications

### **MACADAMIA-NUT OIL, REFINED**

**CAS** 128497-20-1

**Syn:** *Macadamia Ternifolia* Seed Oil

**Origin and Production:** This high quality speciality is cold-pressed from the Macadamia nut (*Macadamia ternifolia*). The tasty nut is valued in snacks and pastries. The Macadamia nut tree is native to Australia (Australian hazelnut). It has been cultivated in Hawaii since 1930 and has since spread into the Pacific region and South America. The pressed oil is distinguished by its mild nutty taste, odor and light yellow color. The full refining process produces a very light oil with a faint odor and substantially extended shelf-life. It is rich in Palmitoleic Acid C (16:1) which is bound to a natural triglyceride and therefore easily absorbed into the upper skin layers and possesses excellent spreading properties. Increasingly, Macadamia Nut Oil is being used as a substitute for Mink Oil.

<i>Test</i>	<i>Specification</i>	
	<u>Min.</u>	<u>Max.</u>
<b>Sp. Gr (20 °C)</b>	0.911	0.918
<b>RI, <math>\eta_D^{20}</math></b>	1.466	1.470
<b>Acid value</b>		1.0
<b>Iodine value</b>	70	80
<b>Saponification value</b>	190	200
<b>Unsaponifiable Matter</b>		1.5%
<b><u>Fatty Acid composition</u></b>		
Laurin Acid, C (12:0)		1.0%
Myristic Acid, C (14:0)		1.5%
Palmitic Acid, C (16:0)	7.5	10.0%
Palmitoleic Acid, C (16:1)	16.0	24.0%
Stearic Acid, C (18:0)	2.0	4.0%
Oleic Acid C, (18:1)	53.0	67.0%
Linoleic Acid, C (18:2)	1.5	4.0%
Linolenic Acid, C (18:3)		0.5%
Arachidic Acid, C (20:0)	1.5	3.0%
Eicosenoic Acid, C (20:1)	1.5	3.0%
Behenic Acid, C (22:0)		1.0%
Erucic Acid, C (22:1)		1.0%
Lignoceric Acid, C (24:0)		0.5%

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***Storage:*** Protect from light. Maintain at or below room temperature, in tightly sealed containers (nitrogen blanketed). Once opened product should be used immediately.

***Usage:*** The unique fatty Acid composition of Palmitoleic, Palmitic and Oleic Acid of Macadamia Nut Oil is utilized by the cosmetics industry in many applications (i.e. body lotions, creams, massage oil, sun tan lotions etc.). Pharmaceutical applications are being researched (i.e. dermatological, base oil). Macadamia Nut Oil is also an valued gourmet oil.