

# Product - Specification

**gustavheess**  
group of companies since 1897

Reg-No.: Sp218122c

Rev-No.: c

Printing Date: 16. April 2020

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Product / Trading-Name: **Macadamia nut oil refined organic DE-ÖKO-001**

**Description:** Macadamia nut oil is obtained by expression from the ripe seeds of the Macadamia tree. It is then refined.

**Product No.:** 218122

**CAS No.:** 438545-25-6; 159518-86-2

**INCI Name:** Macadamia Integrifolia Seed Oil;  
Macadamia Integrifolia/Tetraphylla Seed Oil

**Properties:** A nearly colourless to pale yellow, clear oil with low viscosity. It has a slight odour.

Parameter	Method	Unit	Value
<b><u>Physical and Chemical Characteristics</u></b>			
acid value	Ph. Eur. [2.5.1]	mg KOH/g	max. 0,6
peroxide value	Ph. Eur. [2.5.5]	meq O2/kg	max. 10,0
refractive index (20 °C)	Ph. Eur. [2.2.6]		ca. 1,468
relative density (20 °C)	Ph. Eur. [2.2.5]		ca. 0,915
alkaline impurities	Ph. Eur. [2.4.19]		complies with
iodine value	Ph. Eur. [2.5.4]	g I2/100g	70,0 - 80,0
unsaponifiable matter	Ph. Eur. [2.5.7]	%	max. 1,5

### **Fatty Acid Composition (GC of FAMES)**

< C 14	Ph. Eur. [2.4.22]	%	max. 1,0
14:0 myristic acid	Ph. Eur. [2.4.22]	%	max. 1,5
16:0 palmitic acid	Ph. Eur. [2.4.22]	%	7,0 - 9,0
16:1 palmitoleic acid	Ph. Eur. [2.4.22]	%	15,0 - 24,0
18:0 stearic acid	Ph. Eur. [2.4.22]	%	2,0 - 4,0
18:1 oleic acid	Ph. Eur. [2.4.22]	%	53,0 - 67,0
18:2 linoleic acid	Ph. Eur. [2.4.22]	%	1,5 - 4,0
18:3 linolenic acid	Ph. Eur. [2.4.22]	%	max. 0,5
20:0 arachidic acid	Ph. Eur. [2.4.22]	%	1,5 - 3,0
20:1 eicosenoic acid	Ph. Eur. [2.4.22]	%	1,5 - 3,0
22:0 behenic acid	Ph. Eur. [2.4.22]	%	max. 1,0
22:1 erucic acid	Ph. Eur. [2.4.22]	%	max. 1,0
24:0 lignoceric acid	Ph. Eur. [2.4.22]	%	max. 0,5
other fatty acids	Ph. Eur. [2.4.22]	%	max. 2,0

### **Storage:**

**Keep in well closed, well filled containers or under inert gas, protect from light, cool and dry.**

### **Residual Solvents:**

Continued ....

<b>Created:</b> PS	<b>Checked:</b> AW	<b>Released:</b> MT	
<b>Date:</b> 05.10.18	<b>Date:</b> 05.10.18	<b>Date:</b> 08.10.18	

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**It complies with the guideline CPMP/ICH/283/95 and CPMP/ICH/1940/00 corr. (residual solvents).**