

# Product - Specification

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Reg-No.: Sp304122a  
Rev-No.: a

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

**Description:** Sunflower oil refined, organic is the fixed oil obtained by expression and following refining from the organically grown seeds of Helianthus annuus L. It has a high content of Linoleic acid.

**Product No.:** 304122

**CAS No.:** 8001-21-6

**EINECS No.:** 232-273-9

**INCI Name:** Helianthus Annuus Seed Oil

**Properties:** A clear and light yellow to yellow liquid. It is insoluble in water and ethanol (96 %); soluble in ether and petroleum spirit.

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. 1,475
relative density (20 °C)	Ph. Eur. [2.2.5]		0,919 - 0,925
unsaponifiable matter	Ph. Eur. [2.5.7]	%	max. 1,5

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

16:0 palmitic acid	Ph. Eur. [2.4.22]	%	4,0 - 9,0
16:1 palmitoleic acid	Ph. Eur. [2.4.22]	%	max. 1,0
18:0 stearic acid	Ph. Eur. [2.4.22]	%	1,0 - 7,0
18:1 oleic acid	Ph. Eur. [2.4.22]	%	14,0 - 40,0
18:2 linoleic acid	Ph. Eur. [2.4.22]	%	48,0 - 74,0
18:3 linolenic acid	Ph. Eur. [2.4.22]	%	max. 2,0
20:0 arachidic acid	Ph. Eur. [2.4.22]	%	max. 1,0
22:0 behenic acid	Ph. Eur. [2.4.22]	%	max. 2,0
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:**

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

<b>Created:</b>	OF	<b>Checked:</b>	BZ	<b>Released:</b>	OF
<b>Date:</b>	27.12.10	<b>Date:</b>	25.01.11	<b>Date:</b>	01.02.11

