

# Product - Specification

**gustavheess**  
group of companies since 1897

Reg-No.: Sp226031e

Rev-No.: e

Printing Date: 3. March 2023

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Product / Trading-Name: **Safflower oil refined type II high oleic Ph. Eur. 11.0**

**Description:** Safflower oil Type II high oleic is the fatty oil obtained from seeds of hybrids of *Carthamus tinctorius* L. by expression and/or extraction followed by refining.  
It is rich in oleic (cis-9-octadecenoic) acid.

Production: The oil is prepared using materials and methods to ensure that the content of brassicasterol in the sterol fraction of the oil is not greater than 0,3 %

**Product No.:** 226031

**CAS No.:** 8001-23-8

**EINECS No.:** 232-276-5

**INCI Name:** *Carthamus Tinctorius* Seed Oil

**Properties:** A clear, viscous, yellow to pale yellow liquid. It is practically insoluble in ethanol 96%, miscible with light petroleum (bp: 40 - 60 °C).

Parameter	Method	Unit	Value
<b><u>Physical and Chemical Characteristics</u></b>			
acid value	Ph. Eur. [2.5.1]	mg KOH/g	max. 0,5
peroxide value	Ph. Eur. [2.5.5]	meq O2/kg	max. 10,0
refractive index (20 °C)	Ph. Eur. [2.2.6]		ca. 1,472
relative density (20 °C)	Ph. Eur. [2.2.5]		ca. 0,914
alkaline impurities	Ph. Eur. [2.4.19]		complies with
unsaponifiable matter	Ph. Eur. [2.5.7]	%	max. 1,5
water	Ph. Eur. [2.5.32]	%	max. 0,1

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

< C 14	Ph. Eur. [2.4.22]	%	max. 0,2
14:0 myristic acid	Ph. Eur. [2.4.22]	%	max. 0,2
16:0 palmitic acid	Ph. Eur. [2.4.22]	%	3,6 - 6,0
18:0 stearic acid	Ph. Eur. [2.4.22]	%	1,0 - 5,0
18:1 oleic acid	Ph. Eur. [2.4.22]	%	70,0 - 84,0
18:2 linoleic acid	Ph. Eur. [2.4.22]	%	7,0 - 23,0
18:3 linolenic acid	Ph. Eur. [2.4.22]	%	max. 0,5
20:0 arachidic acid	Ph. Eur. [2.4.22]	%	max. 1,0
20:1 eicosenoic acid	Ph. Eur. [2.4.22]	%	max. 1,0
22:0 behenic acid	Ph. Eur. [2.4.22]	%	max. 1,2

### **Storage:**

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

### **Residual Solvents:**

Continued ....

<b>Created:</b> AS	<b>Checked:</b> AW	<b>Released:</b> MT	
<b>Date:</b> 09.12.22	<b>Date:</b> 12.12.22	<b>Date:</b> 13.12.22	

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**It complies with the guideline CHMP/ICH/82260/2006 (residual solvents)**