

# Product - Specification

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Reg-No.: Sp220120c

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Page: 1

Product / Trading-Name: **Sunflower oil virgin High Oleic organic DE-ÖKO-001**

**Description:** Sunflower oil high oleic is the fatty oil obtained from the ripe seeds of Helianthus annuus L. (Asteraceae) by mechanical expression.

**Product No.:** 220120

**CAS No.:** 8001-21-6 or 164250-88-8

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

**INCI Name:** Helianthus Annuus Seed Oil or Helianthus Annuus Hybrid Oil

**Properties:** Yellow to light brown liquid with typical odour, can be slightly or opalescent. Practically insoluble in water, miscible with ether and petrolether.

| Parameter | Method | Unit | Value |
|-----------|--------|------|-------|
|-----------|--------|------|-------|

## Physical and Chemical Characteristics

|                          |                  |           |           |
|--------------------------|------------------|-----------|-----------|
| acid value               | Ph. Eur. [2.5.1] | mg KOH/g  | max. 4,0  |
| peroxide value           | Ph. Eur. [2.5.5] | meq O2/kg | max. 10,0 |
| refractive index (20 °C) | Ph. Eur. [2.2.6] |           | ca. 1,470 |
| relative density (20 °C) | Ph. Eur. [2.2.5] |           | ca. 0,915 |

## Fatty Acid Composition (GC of FAMES)

|                       |                   |   |             |
|-----------------------|-------------------|---|-------------|
| 16:0 palmitic acid    | Ph. Eur. [2.4.22] | % | 2,6 - 6,2   |
| 16:1 palmitoleic acid | Ph. Eur. [2.4.22] | % | max. 0,1    |
| 18:0 stearic acid     | Ph. Eur. [2.4.22] | % | 2,9 - 6,2   |
| 18:1 oleic acid       | Ph. Eur. [2.4.22] | % | 75,0 - 90,7 |
| 18:2 linoleic acid    | Ph. Eur. [2.4.22] | % | 2,1 - 17,0  |
| 18:3 linolenic acid   | Ph. Eur. [2.4.22] | % | max. 0,3    |
| 20:0 arachidic acid   | Ph. Eur. [2.4.22] | % | 0,2 - 0,5   |
| 22:0 behenic acid     | Ph. Eur. [2.4.22] | % | 0,5 - 1,6   |

### **Storage:**

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

**Created:** PS

**Checked:** BZ

**Released:** MD

**Date:** 26.02.25

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