

Product - Specification

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Product / Trading-Name: **Linseed oil refined food grade**

Description: Oil obtained by expression from ripe seeds of flax (*Linum usitatissimum* L.). It is then refined.
Product No.: 312030
CAS No.: 8001-26-1
EINECS No.: 232-278-6
INCI Name: *Linum Usitatissimum* Seed Oil
Properties: Appearance: light yellow to yellow liquid, on exposure to air turning dark and gradually thickening. When cooled, it becomes a soft mass at about -20°C. Very slightly soluble in alcohol, miscible with light petroleum.

| Parameter | Method | Unit | Value |
|---|------------------|-----------|---------------|
| <u>Physical and Chemical Characteristics</u> | | | |
| acid value | Ph. Eur. [2.5.1] | mg KOH/g | max. 0,6 |
| peroxide value | Ph. Eur. [2.5.5] | meq O2/kg | max. 5,0 |
| refractive index (20 °C) | Ph. Eur. [2.2.6] | | ca. 1,480 |
| relative density (20 °C) | Ph. Eur. [2.2.5] | | ca. 0,931 |
| colour (Gardner) | EN 1557 | | max. 5,0 |
| iodine value | Ph. Eur. [2.5.4] | g I2/100g | min. 175,0 |
| saponification value | Ph. Eur. [2.5.6] | mg KOH/g | 185,0 - 195,0 |

Fatty Acid Composition (GC of FAMES)

| | | | |
|-----------------------|-------------------|---|-------------|
| < C 16 | Ph. Eur. [2.4.22] | % | max. 1,0 |
| 16:0 palmitic acid | Ph. Eur. [2.4.22] | % | 3,0 - 8,0 |
| 16:1 palmitoleic acid | Ph. Eur. [2.4.22] | % | max. 1,0 |
| 18:0 stearic acid | Ph. Eur. [2.4.22] | % | 2,0 - 8,0 |
| 18:1 oleic acid | Ph. Eur. [2.4.22] | % | 11,0 - 35,0 |
| 18:2 linoleic acid | Ph. Eur. [2.4.22] | % | 11,0 - 24,0 |
| 18:3 linolenic acid | Ph. Eur. [2.4.22] | % | 35,0 - 65,0 |
| 20:0 arachidic acid | Ph. Eur. [2.4.22] | % | max. 1,0 |

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)

| | | | | | |
|-----------------|----------|-----------------|----------|------------------|----------|
| Created: | AS | Checked: | BZ | Released: | CD |
| Date: | 02.08.16 | Date: | 03.08.16 | Date: | 03.08.16 |

