

Product - Specification

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Page: 1

Product / Trading-Name: **Linseed oil virgin Ph. Eur. 11.0**

Description: Fatty oil obtained by cold expression from ripe seeds of flax (*Linum usitatissimum* L.).
Product No.: 312024
CAS No.: 8001-26-1
EINECS No.: 232-278-6
INCI Name: Linum Usitatissimum Seed Oil
Properties: Clear, yellow or brownish-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 ethanol (96%), 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. 4,0
peroxide value	Ph. Eur. [2.5.5]	meq O2/kg	max. 15,0
refractive index (20 °C)	Ph. Eur. [2.2.6]		ca. 1,480
relative density (20 °C)	Ph. Eur. [2.2.5]		ca. 0,931
iodine value	Ph. Eur. [2.5.4]	g I2/100g	160,0 - 200,0
saponification value	Ph. Eur. [2.5.6]	mg KOH/g	188,0 - 195,0
unsaponifiable matter	Ph. Eur. [2.5.7]	%	max. 1,5
water	Ph. Eur. [2.5.32]	%	max. 0,1
cadmium	Ph. Eur. [2.4.27]	ppm	max. 0,5

Fatty Acid Composition (GC of FAMES)

< C 16	Ph. Eur. [2.4.22C]	%	max. 1,0
16:0 palmitic acid	Ph. Eur. [2.4.22C]	%	3,0 - 8,0
16:1 palmitoleic acid	Ph. Eur. [2.4.22C]	%	max. 1,0
18:0 stearic acid	Ph. Eur. [2.4.22C]	%	2,0 - 8,0
18:1 oleic acid	Ph. Eur. [2.4.22C]	%	11,0 - 35,0
18:2 linoleic acid	Ph. Eur. [2.4.22C]	%	11,0 - 24,0
18:3 linolenic acid	Ph. Eur. [2.4.22C]	%	35,0 - 65,0
20:0 arachidic acid	Ph. Eur. [2.4.22C]	%	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 CHMP/ICH/82260/2006 (residual solvents)

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