

Product - Specification

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

Description: Castor Oil is the fatty oil obtained by cold expression from the seeds of *Ricinus communis* L.. During the expression step, the temperature of the oil must not exceed 50 °C.

Product No.: 740023

CAS No.: 8001-79-4

EINECS No.: 232-293-8

INCI Name: Ricinus Communis Seed Oil

Properties: Clear at 40 °C, slightly yellow, viscous, hygroscopic liquid. Slightly soluble in light petroleum; miscible with ethanol 96% and with glacial acetic acid.

Parameter	Method	Unit	Value
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Physical and Chemical Characteristics

acid value	Ph. Eur. [2.5.1]	mg KOH/g	max. 1,5
peroxide value	Ph. Eur. [2.5.5]	meq O2/kg	max. 10,0
refractive index (20 °C)	Ph. Eur. [2.2.6]		ca. 1,479
relative density (20 °C)	Ph. Eur. [2.2.5]		ca. 0,958
identification A,B,C	Ph. Eur.		complies with
iodine value	Ph. Eur. [2.5.4]	g I2/100g	82,0 - 90,0
optical rotation	Ph. Eur. [2.2.7]	°	+3,5 - +6,0
unsaponifiable matter	Ph. Eur. [2.5.7]	%	max. 0,8
hydroxyl value	Ph. Eur. [2.5.3]	mg KOH/g	min. 160
specific absorbance (at the maximum at 270nm)	Ph. Eur. [2.2.25]		max. 0,7
water	Ph. Eur. [2.5.32]	%	max. 0,3

Fatty Acid Composition (GC of FAMES)

16:0 palmitic acid	Ph. Eur. [2.4.22]	%	max. 2,0
18:0 stearic acid	Ph. Eur. [2.4.22]	%	max. 2,5
18:1 oleic acid and isomer	Ph. Eur. [2.4.22]	%	2,5 - 6,0
18:2 linoleic acid	Ph. Eur. [2.4.22]	%	2,5 - 7,0
18:3 linolenic acid	Ph. Eur. [2.4.22]	%	max. 1,0
20:1 eicosenoic acid	Ph. Eur. [2.4.22]	%	max. 1,0
ricinoleic acid	Ph. Eur. [2.4.22]	%	85,0 - 92,0
any other fatty acid (for each fatty 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 CHMP/ICH/82260/2006 (residual solvents)

Created:	LN	Checked:	MT	Released:	MT
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