

# Product - Specification

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

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

**Product No.:** 740031

**CAS No.:** 8001-79-4

**EINECS No.:** 232-293-8

**INCI Name:** Ricinus Communis Seed Oil

**Properties:** A clear, almost colourless or slightly yellow, viscous, hygroscopic liquid. Slightly soluble in light petroleum; miscible with ethanol 96% and with glacial acetic acid.

Parameter	Method	Unit	Value
<b><u>Physical and Chemical Characteristics</u></b>			
acid value	Ph. Eur. [2.5.1]	mg KOH/g	max. 0,8
peroxide value	Ph. Eur. [2.5.5]	meq O2/kg	max. 5,0
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
viscosity (20 °C)	Ph. Eur. [2.2.9]	mPa*s	ca. 1000
appearance	Ph. Eur.		complies with
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 (maximum at 270nm)	Ph. Eur. [2.2.25]		0,7 - 1,5
water	Ph. Eur. [2.5.32]	%	max. 0,3
oil obtained by extraction and adulteration	Ph. Eur.		complies with

### **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.**

**Created:** PS

**Checked:** MT

**Released:** MT

**Date:** 25.01.24

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