

# Product - Specification

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Reg-No.: Sp740320c

Rev-No.: c

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Product / Trading-Name: **Castor oil cold pressed organic EU and NOP Kiwa BCS  
Öko-Garantie GmbH**

**Description:** Castor Oil is the fatty oil obtained by expression from the seeds of *Ricinus communis* L..  
**Product No.:** 740320  
**CAS No.:** 8001-79-4  
**EINECS No.:** 232-293-8  
**INCI Name:** Ricinus Communis Seed Oil  
**Properties:** A clear, slightly yellow, viscous, hygroscopic liquid. Slightly soluble in light petroleum; miscible with glacial acetic acid and with ethanol.

Parameter	Method	Unit	Value
<b><u>Physical and Chemical Characteristics</u></b>			
acid value	Ph. Eur. [2.5.1]	mg KOH/g	max. 2,0
peroxide value	Ph. Eur. [2.5.5]	meq O2/kg	max. 10,0
refractive index (20 °C)	Ph. Eur. [2.2.6]		ca. 1,479
relative density (20 °C)	Ph. Eur. [2.2.5]		ca. 0,958
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 (268nm)	Ph. Eur. [2.2.25]		max. 1,0
water	Ph. Eur. [2.5.12]	%	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 isomers	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	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)**

<b>Created:</b>	AS	<b>Checked:</b>	AW	<b>Released:</b>	Schw
<b>Date:</b>	21.07.14	<b>Date:</b>	21.07.14	<b>Date:</b>	21.07.14

