

Product - Specification

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Product / Trading-Name: **Castor oil virgin low Acid Value 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.: 740060

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 |
|-----------|--------|------|-------|
|-----------|--------|------|-------|

Physical and Chemical Characteristics

| | | | |
|--------------------------------------|-------------------|-----------|---------------|
| acid value | Ph. Eur. [2.5.1] | mg KOH/g | max. 1,0 |
| 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 |
| 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 |
| 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 |
| Date: | 14.12.22 | Date: | 19.12.22 | Date: | 20.12.22 |

