

TECHNICAL DATA SHEET

Product Name	CASTOR OIL
Botanical Name	Ricinus communis
Product Code	PCO4006
CAS #	8001-79-4
FEMA #	2263
EINECS #	232-293-8
INCI Name	Ricinus communis (Castor) Oil

Part Used	Seeds
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Almost colorless to slightly yellow viscous liquid
Odour	Very slight, distinct odour
Refractive Index	1.476 - 1.481 @ 20°C
Specific Gravity (g/mL)	0.952 - 0.965 @ 20°C
Saponification Value (mgKOH/g)	175 - 187
Peroxide Value (meq O₂/kg)	Less than 5.0
Iodine Value (g I₂/100g)	82 - 90
Free Fatty Acids (% oleic)	Less than 1.0
Acid Value (mgKOH/g)	Less than 2.0
Hydroxyl Value (mgKOH/g)	Greater than 150.0
Optical Rotation (°)	3.5° to 6°
Solubility	Soluble in alcohols and fixed oils; Insoluble in water

FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
Palmitic Acid	C16:0	0.50 – 1.00
Stearic Acid	C18:0	0.50 – 1.00
Oleic Acid	C18:1 (n-9)	2.00 – 6.00
Ricinoleic Acid	-	85.00 – 95.00
Linoleic Acid	C18:2 (n-6)	1.00 – 5.00
Alpha-Linolenic Acid	C18:3 (n-3)	0.50 – 1.00

As it is electronically generated document, hence no signature required.

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