GLOBAL RESOURCES DIRECT
STRAIGHT FROM THE SOURCE

Castor Oil Refined

SPECIFICATION SHEET

PRODUCT NAME: Castor Oil Refined

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.

STORAGE: Keep in well closed, well filled containers or under inert gas, protect from light, cool and dry.

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.

RESIDUAL SOLVENTS: It complies with the guideline CHMP/ICH/82260/2006 (residual solvents)

Parameter	Unit	Value
Physical and Chemical Characteristics		
Acid Value	mg KOH/g	max. 0,8
Peroxide Value	meq O2/kg	max. 5,0
Refractive Index (20 °C)		ca. 1,479
Relative Density (20 °C)		ca. 0,958
Identification A,B,C		complies with
Viscosity (20 °C)	mPa*s	ca. 1000
Appearance		complies with
Optical Rotation	°	+3,5 - +6,0
Unsaponifiable Matter	%	max. 0,8
Hydroxyl Value	mg KOH/g	min. 160
Specific Absorbance (at the maximum at at 270nm)		0,7 - 1,5
Water	%	max. 0,3
Oil Obtained by Extraction and Adulteration		complies with
Fatty Acid Composition (GC of FAMEs)		
16:0 Palmitic Acid	%	max. 2,0
18:0 Stearic Acid	%	max. 2,5
18:1 Oleic Acid and Isomer	%	2,5 - 6,0
18:2 Linoleic Acid	%	2,5 - 7,0
18:3 Linolenic Acid	%	max. 1,0
20:1 Eicosenoic Acid	%	max. 1,0
Ricinoleic Acid	%	85,0 - 92,0
Any Other Fatty Acid (for each fatty acid)	%	max. 1,0

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