



Technical Data Sheet

Ravasol

Pharma Grade Castor Oil

Description

Ravasol Pharma Grade Castor Oil is a high purity, virgin grade conforming to pharmacopeia specification.

Applications

Ravasol Pharma Grade Castor Oil is suitable for a wide variety of applications, including:-

- used as substrate in the synthesis of active pharmaceutical ingredients
- excipient in products such as coated tablets and ointment formulations
- cosmetic ingredients, benefitting from its positive skin-conditioning and emollient properties
- emulsifier stabilizer when used in lipsticks, lotions and other personal care formulations
- polyol component in polyurethanes where requirement exists for high purity and low-odour

Properties

Property	PU Grade Castor Oil
Appearance at 25 deg C	Pale yellow liquid, clear and free from suspended matter
Odour	Virtually odourless
Kinematic Viscosity at 25 deg C (stokes)	6.3 – 8.9
Optical Rotation	+3.5 deg to + 6.0 deg
Acid Value (mg KOH/g)	1.50 max
Extinction Value	0.5 max
Colour on Lovibond Tintometer in 5 ¼ cell	Yellow 10 max Red 1.0 max
Light Absorbance at 270nm	0.7 max
Peroxide Value	10 max
Iodine Value (Wijs) (gml ₂ /100g)	82 - 90
Moisture (Karl Fischer) (%) or (ppm)	0.30% max
Hydroxyl Value (mg KOH/g)	160 min
FFA	0.35 max
Refractive Index at 20 deg C	1.4770 – 1.4810
Saponification Value (mg KOH/g)	176 - 178
Specific Gravity at 20 deg C	0.952 – 0.965
Unsaponifiable Matter (%)	0.80 max
C16:0 Palmitic Acid	2.0% max
C18:0 Stearic Acid	2.5% max
C18:1 Oleic Acid & Isomers	2.5% to 6.0%
C18:2 Linoleic Acid	2.5% to 7.0%
C18:3 Linolenic Acid	1.0% max
C20:1 Eicosenoic Acid	1.0% max
Ricinoleic Acid	85% to 92%
Any other fatty acid	1% max
Safety Classification	Non-hazardous (SDS available upon request)

Packaging

- 210 litre UN-standard steel drums at 200kg net
- 1000 litre Intermediate Bulk Containers at 950 kg net
- Other packaging may be available upon request

Shelf Life

When stored / un-opened in the original packaging and protected from direct sun light at 10-30°C the shelf life exceeds 12 months. If customer's storage conditions are not aligned to these parameters, then tests should be carried out to determine the shelf life under alternative and specific storage conditions.



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