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CASTOR OIL, PHARMACEUTICAL (PRESSED) MATERIAL SPECIFICATIONS

PRODUCT DESCRIPTION: The Castor Oil plant has been cultivated for more than 6,000 years (Egypt). Major growing countries today are India, Brazil and China, to a lesser extent Thailand, the Philippines and Pakistan. The walnut-sized capsule of the Castor shrub (*Ricinus communis* L.) contains three bean-sized seeds with 40- 55% fatty oil each. Castor oil pressed is won by pressing with subsequent bleaching. It is almost clear to light yellowish colour with a typically very light odour and mild taste. The oil is easily soluble in alcohol, ether, glacial acetic acid, etc., however insoluble in aliphatics (benzene).

PROPERTIES

Density at 20° C
Refractive Index at 20° C
Optical Rotation
Absorption (268 - 270nm)
Acid Value
Hydroxyl Value
Peroxide Value
Iodine Value
Unsaponifiable Matter
Water

TYPICAL ANALYSIS

0,952 - 0,965
1,477 - 1,481
+3,5° - +6,0°
max. 1,5 [1% (m/V) solution in Ethanol, 96%]
max. 2,0
min. 150
max. 10,0
82 - 90
max. 0,8% (m/m)
max. 0,3%

FATTY ACID COMPOSITION

| | | |
|----------------------------|----------------|--------------|
| Palmitic acid | C16:0 | max. 2,0% |
| Stearic acid | C18:0 | max. 2,5% |
| Oleic acid | C18:1 | 2,5 - 6,0% |
| Linoleic acid | C18:2 | 2,5 - 7,0% |
| Linolenic acid | C18:3 | max. 1,0% |
| Eicosenic acid | C20:1 | max. 1,0% |
| Ricinoleic Acid | C18:1/ C12-OH | 85,0 - 92,0% |
| 9,10 Dihydroxystearic acid | C18:0/C9,10-OH | 0,3 - 0,7% |
| Others | | max. 1,0% |

SHELF LIFE: 18 Months

STORAGE: Light protected, not above room temperature, in tightly sealed containers (nitrogen blanketed).

USAGE: Castor Oil pressed is distinguished foremost by its temperature, independent invariable viscosity and strong adhesive power. Its natural origin is appreciated by the pharmaceutical industry where it is used as a medicine (laxative) and as raw material component. The oil is also used in the manufacture of cosmetics and of sophisticated technical products (e.g. medical equipment).

This specification was developed with utmost care based on up-to-date information available, but should also be scrutinized by the recipient. It does not release him from checking the quality of goods delivered with proper diligence.