ALBERDINGK BOLEY

Technical data sheet

ALBERDINGK® Pharm. Castor Oil Virgin Ph.Eur.

Characteristic:

Alberdingk® Pharmaceutical Castor Oil Virgin Ph. Eur. is obtained from the seeds of `Ricinus communis L.'. It is pressed without addition of heat (at max. 50 °C) and not solvent extracted. The oil complies with the monography "Castor oil, virgin", of the current version of the European Pharmacopoeia.

Specification:

| • | | | |
|----------------------------|------------|-------------|-----------|
| Acid value | mg KOH/g | max. 1.5 | ISO 660 |
| Water content | % | max. 0.3 | ISO 8534 |
| Refractive index | | 1.4770 - | ISO 6320 |
| | | 1.4810 | |
| Peroxide value | mVal/kg | max. 5 | ISO 3960 |
| Palmitic acid content | % | 0.0 - 2.0 | ISO 12966 |
| Stearic acid content | % | 0.5 - 1.5 | ISO 12966 |
| Oleic acid content | % | 2.5 - 4.5 | ISO 12966 |
| Octadecenic acid content | % | 0.0 - 0.8 | ISO 12966 |
| Linoleic acid content | % | 2.8 - 6.0 | ISO 12966 |
| Linolenic acid content | % | 0.2 - 0.8 | ISO 12966 |
| 11-Eicosenoic acid content | % | 0.0 - 0.5 | ISO 12966 |
| Ricinoleic acid content | % | 85.0 - 92.0 | ISO 12966 |
| Any other fatty acid | % | <1 | ISO 12966 |
| Iodine value acc. to Wijs | g Iod/100g | 82 - 89 | ISO 12966 |
| Hydroxyl value | mg KOH/g | min. 160 | ISO 12966 |
| Absorption at 270 nm | | max. 0.7 | ISO 3656 |
| | | | |

Further typical data*:

Appearance

According to:

According to:

Ph. Eur 2.2.1

clear at 40°C, slightly yellow, viscous, hygroscopic liquid

Latest update 27.08.2024

Alberdingk Boley GmbH | Düsseldorfer Str. 53 | 47829 Krefeld | Germany Phone +49 2151 528-0 | Fax +49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

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Alberdingk Boley, Inc. | Greensboro, NC, USA | www.alberdingkusa.com Alberdingk Resins (Shenzhen) Co.Ltd. | Shenzhen City, P.R. China | www.alberdingkchina.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or the suitability for a concrete operation purpose cannot be derived from thisinformation. Industrial property rights are to be considered if required.



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ALBERDINGK®

Pharm. Castor Oil Virgin Ph.Eur.

Applications:

Alberdingk® Pharmaceutical Castor Oil Virgin Ph. Eur. is an important raw material in the production of pharmaceuticals where it serves as substrate in the synthesis of active pharmaceutical ingredients or as excipient in products like coated tablets or ointment formulations. Cosmetic formulations benefit from its positive skin-conditioning and emollient properties and the stabilizing effect in emulsions when used in lipsticks, lotions and other personal care formulations.

Besides it is applied as polyol in the production of polyurethane resins with a high demand for purity and smell. Among these are e.g. in the medicinal sector components for dialysis devices or PU foams for mattresses, too.The high purity for the mentioned applications is assured by the manufacture and transport in dedicated equipment and containers. Thereby, any contamination with chemicals and/or solvent-extracted oils is excluded. Alberdingk® Pharmaceutical Castor Oil Virgin Ph. Eur. does not contain an antioxidant.

Properties:

Alberdingk® Pharmaceutical Castor Oil Virgin Ph. Eur. consists mainly of triglycerides of ricinoleic acid (12-hydroxy oleic acid). This fatty acid is responsible for the chemical, physical and physiological differences of Castor oil compared to all other vegetable oils. Castor oil is a clear, colourless to pale yellow liquid. In contrast to other vegetable and animal oils or fats, it is soluble in alcohol and has a viscosity which is 20 times as high. Chemical reactions are not only possible at the ester groups or the double bonds but at the hydroxyl functionality, too.

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Pharm. Castor Oil Virgin Ph.Eur.

Storage:

The storage life can be guaranteed for minimum 12 months in tightly locked not opened original containers and at a temperature of + 10 °C up to + 30 °C. A turbidity of the oil due to coldness is reversible and can be removed by heating up to more than 40 °C.

Safety:

For further information on product safety please refer to the current safety data sheet.

Notice:

* General information - the values can not be considered as part of the product specification.

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