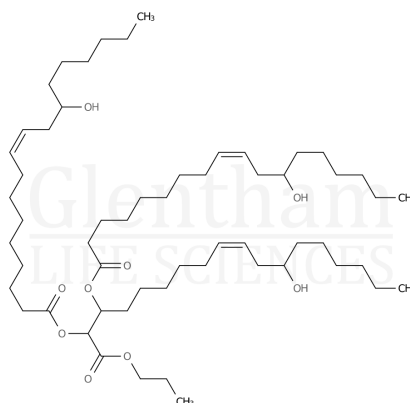


## Product Specification

|               |                      |
|---------------|----------------------|
| Product Name  | Castor oil, EP grade |
| Glentham Code | GL4383               |
| CAS Number    | 8001-79-4            |
| EINECS        | 232-293-8            |
| MDL Number    | MFCD00130746         |

|                   |       |
|-------------------|-------|
| Molecular Weight  | -     |
| Molecular Formula | -     |
| Storage Temp.     | +20°C |



| Property                       | Specification   |
|--------------------------------|---|
| Physical Description           | Clear, almost colourless or slightly yellow viscous liquid                                    |
| Solubility                     | Slightly soluble in light petroleum, miscible with ethanol (96 per cent) and with acetic acid |
| Identification                 | A, B, C, D  |
| Specific Optical Rotation      | +3.5 - +6.0 °   |
| Acid Value                     | ≤ 2.0   |
| Hydroxyl Value                 | ≥ 150mgKOH/g  |
| Peroxide Value                 | ≤ 10.0meqO2/kg  |
| Unsaponifiable Matter          | ≤ 0.8%  |
| Specific Absorbance            | ≤ 1.0   |
| Composition of fatty acids     | To conform to test  |
| Water                          | ≤ 0.3%  |
| Pharmacopoeia Specification(s) | EP (Castor Oil, Virgin)   |

|                       |   |            |
|-----------------------|---|------------|
| Specification Version | - | v1.0       |
| Date Created          | - | 2013-07-15 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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