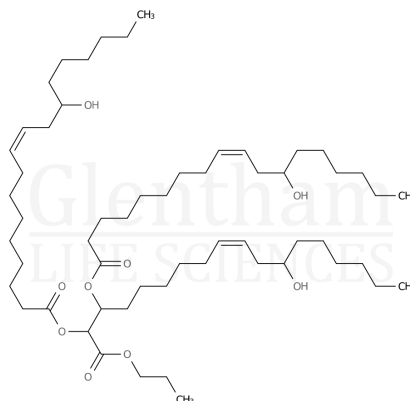


Certificate of Analysis

Product Name Castor oil, EP grade
Glentham Code GL4383
CAS Number 8001-79-4
EINECS 232-293-8
MDL Number MFCD00130746
Batch Number 557ADZ

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



| Property | Specification | Batch 557ADZ |
|--------------------------------|---|--------------------------------|
| Physical Description | Clear, almost colourless or slightly yellow viscous liquid | Slightly yellow viscous liquid |
| Solubility | Slightly soluble in light petroleum, miscible with ethanol (96 per cent) and with acetic acid | Conforms |
| Identification | A, B, C, D | Conforms |
| Specific Optical Rotation | +3.5 - +6.0 ° | +3.6 ° |
| Acid Value | ≤ 2.0 | 1.23 |
| Hydroxyl Value | ≥ 150mgKOH/g | 165.08mgKOH/g |
| Peroxide Value | ≤ 10.0meqO2/kg | 1.02meqO2/kg |
| Unsaponifiable Matter | ≤ 0.8% | 0.35% |
| Specific Absorbance | ≤ 1.0 | Conforms |
| Composition of fatty acids | To conform to test | Conforms |
| Water | ≤ 0.3% | 0.14% |
| Pharmacopoeia Specification(s) | EP (Castor Oil, Virgin) | Conforms |

Specification Version v1.0
Manufacture Date 2020-12-01
Re-Test Date 2029-08-04

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 or contact us using the details above for the current version of this document.

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