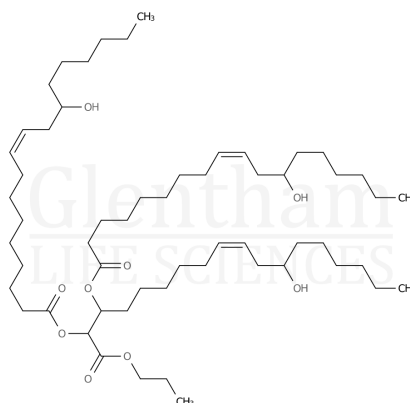


## Certificate of Analysis

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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