

Certificate of Analysis

Gracefruit Ltd

Raw Material Code: R00113

Product Description: Castor Oil, BP

INCI Name: Ricinus Communis Seed Oil

EINECS Number: 232-293-8

CAS Number: 8001-79-4

Date of Production: September-2016

Best Before: August-2018

Lot Number: L000189839

Revised date: -

Analytical Details	Result
Appearance	A clear almost colourless or slightly yellow viscous, hygroscopic liquid
Odour	Very slight and characteristic
Specific Gravity @ 20°C	0.960
Refractive index at 20°C	1.479
Free Fatty Acid (% as Oleic)	0.412
Moisture Content (%)	0.14
Peroxide value (Meq O ₂ / kg)	1.36
Saponification Value	180.1
Unsaponifiable Matter	0.36
Iodine Value	85.41
Colour (Gardner)	1G
Acid Value (mg KOH/g)	0.82
Optical Rotation	+3.6
Hydroxyl Value	163.89
Light Absorbance @ 270nm	0.306

Palmitic Acid	C16:0	1.2
Stearic Acid	C18:0	1.29
Oleic Acid	C18:1	3.66
Ricinoleic Acid	C18:1 (OH)	88.66
Linoleic Acid	C18:2	4.55
Alpha Linolenic Acid	C18:3	0.42
Eicosenoic Acid	C20:1	0.2
Others		0.02