

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: August-2016

Best Before: August-2018

Lot Number: L000201570

Rested date: -

Analytical Details	Result
Appearance	A clear almost colourless or slightly yellow viscous, hygroscopic liquid
Odour	Very slight and characteristic
Specific Gravity @ 20°C	0.963
Refractive index @ 20°C	1.479
Free Fatty Acid (% as Oleic)	0.23
Moisture (%)	0.3
Peroxide Value (meq O ₂ /kg)	1.55
Saponification Value	180.1
Unsaponifiable Matter	0.35
Iodine Value	85.57
Colour (Gardner)	1G
Acid Value (mg KOH/g)	0.46
Optical Rotation	+3.6
Hydroxyl Value (mg KOH/g)	163.85
Absorbance 269nm	0.143

Palmitic Acid	C16:0	1.18
Stearic Acid	C18:0	1.3
Oleic Acid	C18:1	3.6
Ricinoleic Acid	C18:1 (OH)	88.64
Linoleic Acid	C18:2	4.59
Alpha Linolenic Acid	C18:3	0.41
Eicosenoic Acid	C20:1	Not Detected
Others		0.28