

# Certificate of Analysis

Gracefruit Limited  
209 Glasgow Road  
Bonnybridge  
FK4 1QQ



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:	May-2017	Best Before:	April-2019
Lot Number:	L000226416	Retested date:	

Analytical Details	Result
Appearance	A clear almost colourless or slightly yellow viscous, hygroscopic liquid
Odour	Very slight and characteristic
Specific Gravity @ 20°C	0.959
Refractive index @ 20°C	1.479
Free Fatty Acid	0.25
Moisture (%)	0.13
Peroxide Value (MeqO <sub>2</sub> /kg)	0.49
Saponification Value	180.71
Unsaponifiable Matter	0.36
Iodine Value	85.55
Colour (Gardner)	1G
Acid Value (mg KOH/g)	0.50
Optical Rotation	+3.6
Hydroxyl Value (mg KOH/g)	164.11
Solubility	Complies
Light Absorbance @ 270nm	0.341

Palmitic Acid	C16:0	1.21
Stearic Acid	C18:0	1.29
Oleic Acid	C18:1	4.25
Ricinoleic Acid	C18:1 (OH)	87.29
Linoleic Acid	C18:2	4.71
Alpha Linolenic Acid	C18:3	0.47
Eicosenoic Acid	C20:1	Not Detected
Others	-	0.78