

Gracefruit Limited
 209 Glasgow Road
 Longcroft
 Bonnybridge
 FK4 1QQ

CERTIFICATE OF ANALYSIS

PRODUCT NAME: **CASTOR OIL, COLD PRESSED ORGANIC**

LOT NUMBER: **LOT0002231**

PRODUCT INCI: RICINUS COMMUNIS SEED OIL

PRODUCT CODE: K0109

CAS NUMBER: 8001-79-4

EINECS NUMBER: 232-293-8

MANUFACTURING METHOD: COLD PRESSED

MANUFACTURING DATE: 21/01/19

BEST BEFORE DATE: 21/07/2020

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	VISCOUS OILY LIQUID	-
ODOUR	CHARACTERISTIC	-
COLOUR	CLEAR – PALE YELLOW	-
SPECIFIC GRAVITY @ 20°C	0.954 – 0.980	0.962
REFRACTIVE INDEX @ 20°C	1.470 – 1.481	1.478
PEROXIDE VALUE (MEQ O ₂ /KG)	<20.0	2.49
IODINE VALUE (G/100G)	82.0 – 90.0	84.32
ACID VALUE	<5.0	0.64
SAPONIFICATION VALUE (MG KOH/GR)	176.0 – 187.0	181.15
HYDROXL VALUE (MGKOH/G)	>150.0	161.25

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	<2.0	1.05
C18:0	STEARIC	<2.5	1.24
C18:1	OLEIC	2.0 – 6.0	3.43
C18:1	RICINOLEIC	85.0 – 95.0	90.7
C18:2	LINOLEIC	1.0 – 7.0	4.32
C18:3	LINOLENIC	<1.0	0.46