

Gracefruit Ltd
209 Glasgow Road
Longcroft
FK4 1QQ

CERTIFICATE OF ANALYSIS

PRODUCT NAME: HAZELNUT OIL, REFINED

LOT NUMBER: LOT0000790

PRODUCT INCI: CORYLUS AVELLANA SEED

PRODUCT CODE: K0219

CAS NUMBER: 84012-21-5

EINECS NUMBER: 281-667-7

MANUFACTURING METHOD: EXPPELLER PRESSED & REFINED

MANUFACTURING DATE: 10/07/2018

BEST BEFORE DATE: 30/06/2020

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	CLEAR - LIGHT YELLOW OILY LIQUID	-
COLOUR LOVIBOND 5¼	<25Y, <2.5R	20Y, 2.4R
ODOUR	ODOURLESS	-
SPECIFIC GRAVITY @ 20°C	0.910 – 0.930	0.916
REFRACTIVE INDEX @ 20°C	1.465 – 1.470	1.471
SAPONIFICATION VALUE	187 - 200	191.0
UNSAAPONIFIABLE MATTER	<1.0	0.6
FREE FATTY ACID (% AS OLEIC)	<0.2	0.1
PEROXIDE VALUE	<10.0	0.9
IODINE VALUE	83.0 – 90.0	88.0

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	5.0 – 10.0	7.5
C16:1	PALMITOLEIC	<1.0	0.2
C18:0	STEARIC	2.0 - 6.0	2.8
C18:1	OLEIC	68.0 – 85.0	79.0
C18:2	LINOLEIC	7.0 – 15.0	9.1
C18:3	LINOLENIC	< 0.5	0.1
C20:0	ARACHIDIC	< 0.5	0.2
C20:1	EICOSANOIC	< 0.3	0.2