

# BOMAR

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: CASTOR OIL (No1), REFINED**

**BATCH NUMBER: N1296** (supplier LOT0007395)

PRODUCT INCI: RICINUS COMMUNIS SEED OIL

PRODUCT CODE: K0108

CAS NUMBER: 8001-79-4

EINECS NUMBER: 232-293-8

MANUFACTURING METHOD: EXPELLER PRESSED, REFINED

MANUFACTURING DATE: 15/07/2020

BEST BEFORE DATE: 15/07/2022

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	ODOURLESS	-
COLOUR	CLEAR – GREENISH - YELLOW	-
COLOUR LOVIBOND	≤2R, ≤20Y	1.7R, 17.0Y
SPECIFIC GRAVITY @ 20°C	0.915 – 0.925	0.917
RELATIVE DENSITY @ 15°C	0.957 – 0.970	0.9627
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4788
FREE FATTY ACID (% AS OLEIC)	< 1.0	0.61
PEROXIDE VALUE (MEQ O <sub>2</sub> /KG)	<10.0	2.5
IODINE VALUE (G/100G)	82.0 – 90.0	85.46
ACID VALUE	<2.0	1.21
SAPONIFICATION VALUE (MG KOH/GR)	177.0 – 187.0	180.5
UNSAAPONIFIABLE MATTER	≤1.0	0.36
ACETYL VALUE (MGKOH/G)	140.0 – 150.0	141.0
HYDROXL VALUE (MGKOH/G)	160.0 – 169.0	164.74

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	1.0 – 2.0	1.51
C18:0	STEARIC	1.0 – 3.0	1.9
C18:1	OLEIC	2.0 – 5.0	4.4
C18:1	RICINOLEIC	85.0 – 90.0	87.63
C18:2	LINOLEIC	3.0 – 7.0	4.2

The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records with Bomar regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations. The information is not to be disclosed to others, reproduced or transmitted in whole or in part without permission from Bomar Ltd