

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CASTOR OIL (No1), REFINED

Bomar Batch: S0277 LOT0021357

PRODUCT INCI: RICINUS COMMUNIS SEED OIL

PRODUCT CODE: K0108

CAS NUMBER: 8001-79-4

EINECS NUMBER: 232-293-8

MANUFACTURING METHOD: EXPPELLER PRESSED, REFINED

MANUFACTURING DATE: 01/02/2024

BEST BEFORE DATE: 01/02/2026

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	COMPLIES
ODOUR	ODOURLESS	COMPLIES
COLOUR	CLEAR - YELLOW	COMPLIES
COLOUR LOVIBOND	≤2R, ≤20Y	1.6R 16.0 Y
SPECIFIC GRAVITY @ 30°C	0.952 – 0.965	0.9568
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4788
FREE FATTY ACID (% AS OLEIC)	< 1.0	0.695
IODINE VALUE (G/100G)	82.0 – 88.0	85.37
PEROXIDE VALUE	<5.0	3.10
ACID VALUE	<2.0	1.39
SAPONIFICATION VALUE (MG KOH/GR)	176.0 – 186.0	180.48
UNSAAPONIFIABLE MATTER	≤0.8	0.34
HYDROXL VALUE (MGKOH/G)	160.0 – 169.0	164.31
WATER	<0.3	0.11
OPTICAL ROTATION	+3.5 TO +6.0	+3.6
SPECIFIC ABSORBANCE	0.7 – 1.5	1.205

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	1.0 – 2.0	1.36
C18:0	STEARIC	<2.5	1.38
C18:1	OLEIC	2.5 – 6.0	3.76
-	RICINOLEIC	85.0 – 92.0	87.40
C18:2	LINOLEIC	2.5 – 7.0	4.83
C18:3	LIINOLENIC	<1.0	0.45
C20:1	EICOSENOIC	<1.0	0.33

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