

## CERTIFICATE OF ANALYSIS

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

**LOT NUMBER: R0615 (LOT0018656)**

**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: 04/05/2023**

**BEST BEFORE DATE: 04/05/2025**

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	ODOURLESS	-
COLOUR	CLEAR - YELLOW	-
COLOUR LOVIBOND	≤2R, ≤20Y	1.9R, 18.0Y
SPECIFIC GRAVITY @ 25°C	0.958 – 0.969	0.9623
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4788
FREE FATTY ACID (% AS OLEIC)	< 1.0	0.43
IODINE VALUE (G/100G)	82.0 – 90.0	86.26
ACID VALUE	<2.0	0.86
SAPONIFICATION VALUE (MG KOH/GR)	177.0 – 187.0	180.42
UNSATURATED MATTER	≤1.0	0.34
HYDROXIL VALUE (MGKOH/G)	160.0 – 169.0	164.78

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	1.0 – 2.0	1.38
C18:0	STEARIC	1.0 – 3.0	1.61
C18:1	OLEIC	2.0 – 5.0	3.47
C18:1	RICINOLEIC	85.0 – 90.0	87.65
C18:2	LINOLEIC	3.0 – 7.0	4.54

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