

CERTIFICATE OF ANALYSIS

Product Name	SAFFLOWER OIL
Botanical Name	Carthamus tinctorius L
INCI Name	Carthamus Tinctorius Seed Oil
CAS#	8001-23-8
EINECS#	232-276-8

Batch #	6032A26/01
Manufacturing Date	01/2026
Best Before Date	01/2028

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Physical status at 25°C	Liquid	CONFORMS
Acid Value (mg KOH/g)	≤ 0.5	0.07
Iodine Value (gl₂/100g)	120.0 - 135.0	132.7
Saponification Value (mg KOH/g)	180.0 – 195.0	193.2
Peroxide value at drumming*	≤ 2.0 (Meq O ₂ /g)	0.4
Peroxide value during shelf life	≤ 10.0 (Meq O ₂ /g)	guaranteed within shelf life
Colour Lovibond (5.25" CELL)	≤50Y/5.0R Yellow/Red	5.0Y/0.5R
Unsaponifiable matter (%)	< 1.5	CONFORM
Density at 20°C (g/cc)	0.912 - 0.930	0.916
Cloud Point (°C)	< -10	CONFORMS
Pour Point (°C)	< -15	CONFORMS
Refractive Index	1.472 - 1.476 @ 20°C	1.472

*Guaranteed at direct arrival at customer's warehouse

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
Myristic Acid	C14:0	≤0.10	0.07
Palmitic Acid	C16:0	5.00 – 8.00	6.50
Palmitoleic Acid	C16:1	≤0.50	0.13
Margaric Acid	C17:0	<0.10	Tr.
Margaroleic Acid	C17:1	<0.10	Tr.
Stearic Acid	C18:0	2.50 – 7.00	3.72
Oleic Acid	C18:1	20.00 – 40.00	27.83
Linoleic Acid	C18:2	50.00 – 74.00	60.92
Alpha-Linolenic Acid	C18:3	≤0.50	0.08
Arachidic Acid	C20:0	≤0.50	0.24
Eicosenoic Acid	C20:1	≤0.50	0.14
Behenic Acid	C22:0	≤0.10	0.36
Erucic Acid	C22:1	Tr.	Tr.

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight.
 When stored for more than 24 months, quality should be checked before use.

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