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## CERTIFICATE OF ANALYSIS

### PRODUCT NAME: Sunflower Oil Organic

<b>Trade Name:</b>	Sunflower Oil Organic	<b>Inci Name:</b>	<i>Helianthus Annuus (Sunflower) Seed Oil</i>
<b>Cas No:</b>	8001-21-6	<b>Einecs No:</b>	232-273-9
<b>Country of Origin:</b>	France	<b>Country of Manufacture:</b>	France
<b>Manufactured:</b>	February 2023	<b>Shelf Life:</b>	12 Months
<b>Lot No:</b>	106646	<b>Application:</b>	Cosmetics
		<b>Organic Licence No:</b>	CC06017

**Description:**  
The fixed oil is obtained by cold pressing from the seeds of the Sunflower, *Helianthus annuus L., Compositae*

ANALYTICAL DETAILS	UNIT	RANGE	RESULT
Appearance @ 20°C	Organoleptic	Mobile oily liquid	Conforms
Colour	Organoleptic	Light yellow to yellow to golden yellow	Conforms
Odour	Organoleptic	Characteristic	Conforms
Refractive Index @ 20°C	-	1.470 – 1.480	1.474
Specific Gravity @ 20°C	g/ml	0.910 – 0.930	0.921
Acid Value	mg KOH/g	≤ 10.0	0.12
Free Fatty Acid (as Oleic)	%	≤ 5.0	0.06
Peroxide Value	meq O <sub>2</sub> /kg	≤ 20.0	4.6
Saponification Value	mg KOH/g	175 - 215	193
Iodine Value	mg/g	95 - 150	126
Flash Point (Closed Cup)	°C	>280°	Conforms

TYPE	ACID NAME	UNIT	RANGE	RESULT
C16:0	Palmitic	%	4 – 9	6.01
C16:1	Palmitoleic	%	≤ 1.0	0.09
C18:0	Stearic	%	≤ 8.0	3.22
C18:1	Oleic	%	10 – 40	31.75
C18:2	Linoleic	%	48 – 80	56.64
C18:3	Linolenic	%	≤ 2.0	0.05
C20:0	Arachidic	%	≤ 1.0	0.25
C22:0	Behenic	%	≤ 2.0	0.66

**Storage:** Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.

**Shelf Life:** The shelf life is 12 months from the date of manufacture, if unopened. Once opened the shelf life of the oil is limited by temperature, light and oxygen exposure. Any remaining oil should be blanketed with nitrogen and used as soon as possible.