

# RAPSEED OIL

## PRODUCT DATA SHEET



**RAPSEED** is a bright yellow flowering member of the family Brassicaceae (mustard or cabbage family). The name derives from the Latin for turnip, *nāpus*, and is first recorded in English at the end of the 14th century.

**RAPSEED OIL** is a natural Refined Vegetable Oil that exhibits a specific fatty acid distribution that contains omega-9, omega-6 and omega-3 fatty acids.

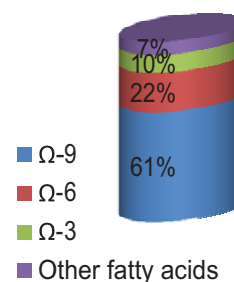


Table1. Rapeseed oil fatty acid composition

Several studies show that skin damage induced by free radicals can be limited by supplementing the skin with antioxidants such as  $\alpha$ -tocopherol and thereby strengthening its antioxidant capacity<sup>1</sup>.

**RAPSEED OIL** is a good source for tocopherols and phytosterols, components offering both antioxidant activity and bioactivity for skin care applications.

Table 2. Typical tocopherol and phytosterol composition of standard rapeseed oil

Tocopherols	ppm
$\alpha$ -Tocopherol	240
$\gamma$ -Tocopherol	360
$\delta$ -Tocopherol	10
Phytosterols	ppm
$\beta$ -Sitosterol	2900
Campesterol	2300
Brassicasterol	500
Others	300

**RAPSEED OIL** is moisturizing, emollient and cost effective oil suitable for use in bath oils, skin care and sun care products.

1. Jiang, Q. et al. (2003) The FASEB Journal, 17, 816-822.

## RAPSEED OIL

### TECHNICAL DATA

<b>Appearance:</b>	Pale yellow Oily liquid, with minimum odour
<b>Acid value (% oleic acid):</b>	≤ 0.4 %
<b>Peroxide value:</b>	≤ 5.0 meq O <sub>2</sub> /Kg oil
<b>Benzo-<math>\alpha</math>-pyrene:</b>	≤ 1.0 ppb

### MAIN FATTY ACID COMPOSITION (Fatty Acid Fraction):

Fatty acid	%
<b>Oleic Acid (<math>\Omega</math>-9)</b>	50 - 65 %
<b>Linoleic Acid (<math>\Omega</math>-6)</b>	15 - 30 %
<b>Palmitic Acid</b>	2 - 7 %
<b>Stearic Acid</b>	1 - 3 %
<b><math>\gamma</math>-Linolenic Acid (<math>\Omega</math>-3)</b>	6 - 14 %

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### APPLICATION



**RAPSEED OIL** may be applied directly to the skin. It may also be easily incorporated as an active ingredient or an ideal carrier in skin and sun care products. Recommended dosage is between 3 and 10 %.

**RAPSEED OIL** is an ideal ingredient that is easily incorporated in all kinds of cosmetics from rinse-off to leave-on products. Ideally suited for anti-aging and sun care products.

**INCI Name:** Brassica Campestris (Rapeseed) Oil

**RAPE SEED OIL****CODE** 008126      **SPECIFICATION**      **Nº** 00812601

<b>PARAMETERS</b>	<b>SPECIFICATIONS</b>	<b>EDITION - 09/07/2004</b>
Color Lovibond	0.8 - 1.2 R/4 - 12 Y	
Acid Value (% Oleic acid)	Max. 0.4	
Peroxides (meq O/kg oil)	Max. 5.0	
Benzo-A-Pyrene (ppb)	Max.1.0	
Chromatography:	Fatty Acid Fraction:	
Myristic	Max. 0.1%	
Palmitic	2.0 - 7.0 %	
Palmitoleic	Max 1.0 %	
Stearic	1.0 - 3.0 %	
Oleic	50 - 65 %	
Linoleic	15 - 30 %	
Linolenic	6.0 - 14 %	
Arachidic	Max 1.5 %	
Eicosenoic	Max 4.5 %	
Behenic	Max 0.5 %	
Erucic	Max 5.0 %	

**PACKING****REMARKS**

Keep full and well closed in dry place and away from light