

EVOIL[®] EVENING PRIMROSE

PRODUCT DATA SHEET



EVOIL[®] EVENING PRIMROSE is a Refined Vegetable Oil that improves the intrinsic properties of Evening Primrose Oil creating a more functional vegetable oil.

EVENING PRIMROSE species are native to America; it was used by the North American Indians to relieve a variety of medical conditions.

EVOIL[®] EVENING PRIMROSE physical characteristics have been improved resulting in minimal colour level and a virtually odourless vegetable oil.

EVOIL[®] EVENING PRIMROSE is a natural Refined Vegetable Oil that exhibits a specific fatty acid distribution with high content in gamma - linolenic acid (GLA, an Omega-6), presenting a minimum 5.5 % GLA content. Gamma - linolenic acid is an important intermediary in the metabolic conversion of linolenic acid into Prostaglandin E1 (PGE₁) one of many prostaglandins which are interconvertible, and which modulate the action of many hormones.

TECHNICAL DATA

Appearance:	Pale yellow Oily liquid, with minimum odour
Acidity index:	≤ 1.00 mg KOH/g oil
Peroxide value:	≤ 10.0 meq O ₂ /Kg oil
Specific gravity:	0.90 - 0.93 g/ml
Iodine value:	145 - 165

MAIN FATTY ACID COMPOSITION (Fatty Acid Fraction):

Oleic Acid (Ω9)	6 - 18 %
Linoleic Acid (Ω6)	60 - 80 %
Palmitic Acid	5.5 - 8 %
Stearic Acid	1 - 3 %
γ-Linolenic Acid (Ω6)	min. 5.5 %

EVOIL[®] EVENING PRIMROSE

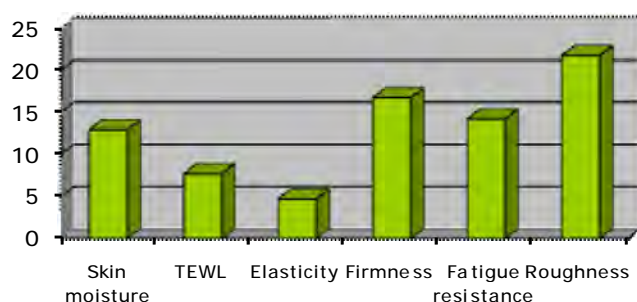
APPLICATION



EVOIL[®] EVENING PRIMROSE may be applied directly to the skin and hair. It may also be easily incorporated as an active ingredient or an ideal carrier in skin and hair care products. Recommended dosage is between 3 and 10 %.

EVOIL[®] EVENING PRIMROSE is an ideal ingredient that is easily incorporated in all kinds of cosmetics from rinse-off to leave-on products. Ideally suited for dry skin, sensitive skin and general skin care products.

Researchers conducted a study that documented the biophysical skin parameters indicators of age-related structural and functional changes in skin tissues. This study tested the effect of **EVENING PRIMROSE OIL** on skin moisture, transepidermal water loss (TEWL), firmness, elasticity, fatigue resistance and roughness. EPO was administered orally. All measured variables had significantly improved by 12.9, 7.7, 4.7, 16.7, 14.2 and 21.7%, respectively. GLA is an essential fatty acid for the skin, i.e. it is unable to synthesize GLA, and therefore depends on preformed GLA for optimal structure and function².



%
Improvement
of skin
parameters
after 12 weeks
of oral
administration
of Evening
Primrose Oil.

INCI NAME: Oenothera biennis oil and Olus oil and Tocopherol
CAS No.: 90028-66-3, 68956-68-3, 1406-66-2
EINECS No.: 289-859-2, 273-313-5, 1406-66-2

¹ R. Muggli (2005). Systemic evening primrose oil improves the biophysical skin parameters of healthy adults. *International Journal of Cosmetic Science* 27 (4), 243-249.

EVOIL EVENING PRIMROSE**CODE** 008398 **SPECIFICATION** **Nº** 00839802

PARAMETERS	SPECIFICATIONS	EDITION - 22/09/2011
Appearance	Yellow to pale yellow clear oily liquid	
Acid Value	max. 1.0 mg KOH/g	
Peroxide value (meq/kg at time of pack, 20°C) (PE 2.5.5)	max. 10.0	
Iodine Value	145 - 165	
Specific gravity 25 °C	0.915 - 0.925	
CROMATOGRAPHY	FATTY ACID FRACTION:	
Palmitic (C16:0)	5.5 - 8 %	
Stearic (C18:0)	1 - 3 %	
Oleic (C18:1)	6 - 18 %	
Linoleic (C18:2)	60 - 80 %	
Gamma-Linolenic (C18:3)	min. 5.5 %	

PACKING**REMARKS**

KEEP FULL AND WELL CLOSED IN A DRY PLACE AND AWAY FROM LIGHT