



EVENING PRIMROSE OIL

PRODUCT DATA SHEET



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

EVENING PRIMROSE OIL 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 9 % 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.

EVENING PRIMROSE OIL offers ease of spreading, great penetration and significant moisture retention combined with its high nourishing properties.

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)	9 - 15 %

EVENING PRIMROSE OIL

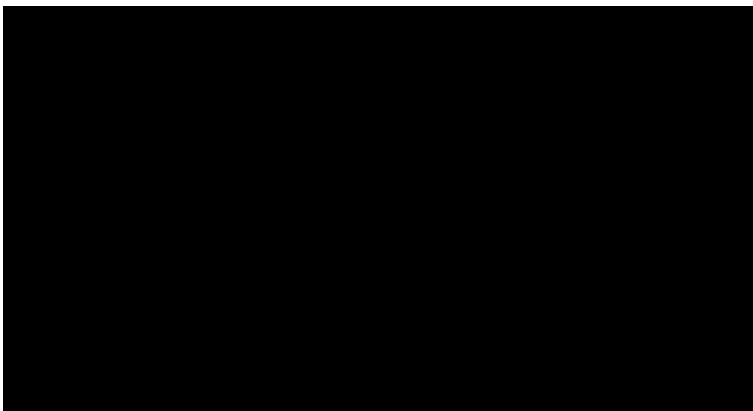
APPLICATION



EVENING PRIMROSE OIL 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 %.

EVENING PRIMROSE OIL 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* (Evening Primrose) Oil.

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.

EVENING PRIMROSE OIL REFINED**CODE** 008264 **SPECIFICATION** **Nº** 00826413

PARAMETERS	SPECIFICATIONS	EDITION - 19/05/2009
Appearance	A clear oil, yellow to pale yellow	
Acid Value	max. 1.0 mg KOH/g	
Peroxides (meq O ₂ /kg oil)	max. 10.0	
Iodine Value	150 - 165	
CHROMATOGRAPHY	FATTY ACID FRACTION:	
Palmitic (C16:0)	5 - 7 %	
Stearic (C18:0)	max. 3 %	
Oleic (C18:1)	5- 11 %	
Linoleic (C18:2)	65 - 85 %	
Gamma-Linolenic (C18:3)	min. 9.0%	

PACKING**REMARKS**

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