

Specification Sheets

Organic Prickly Pear Seed Oil

Version N° 1
Date Implemented : July 2011
Reference: 03HPFB/B

This valuable oil is also known as "oil of Opuntia" by professionals, which is produced by cold pressure of Opuntia Ficus Indica seeds. It has great quality by its fatty acid composition, tocopherols and sterols. Its unsaturated fatty acids rate exceeds 59%, it contains 1085mg/kg tocopherols which 10% of Alpha TE, and more than 6% sterols Delta7, a component rarely found in vegetable oils and recognized for its performance mainly in the revitalization field and protection antiradical.

In addition to its physical and chemical qualities, it is very quickly absorbed by the skin; its texture and touch are extremely smooth. In fact, it is primarily physical qualities that are searched since the first application on the skin feels much softer to the touch.

<u>Component Entity</u>	<u>CAS Number</u>	<u>EINECS Number</u>	<u>Proportions [%w/w]</u>
Organic Prickly Pear Seed Oil	90082-21-6	290-109-1	100% pure

Mode of Extraction : First Cold Pressed

Part Used : Prickly Pear Seed

Botanical Name : Opuntia ficus indica

Origin of seed: Tunisia

Quality : The oil is extracted mechanically, 100% pure and Natural, virgin, first cold pressed, without chemical processing.

Color: Clear, Yellow to Green, oily liquid

Odour: Characteristic

Density: 0.90- 0.92

Insaponifiable Matter %: Max 1

Free Acidity: Max 3

Peroxyde Value: Max 10 Meqo²/kg

Refractive Index: 1,473- 1,476

<u>FATTY ACID PROFILE</u>		
<u>CONSTITUENT</u>	<u>CHAIN STRUCTURE</u>	<u>RANGE</u>
• Palmitic:	C16:0	10.0% to 14.0%
• Palmitoleic:	C16:1 n7	Maximum 1.0%
• Stearic:	C18:0	2.5% to 4.0%
• Oleic:	C18:1 n9	17.0% to 20.0%
• Linoleic:	C18:2 n6	57.0% to 65.0%
• Linolenic:	C18:3	Maximum 1.0%

Other active ingredients :

- tocopherols and tocotrienols (vitamin E): about 1000 mg / kg (powerful antioxidants)
- sterols (about 10 g / kg): beta-sitosterol, campesterol, stigmasterol

APPLICATIONS :

Cosmetic and pharmaceutical industries