

POMEGRANATE SEED OIL

PRODUCT DATA SHEET



The **POMEGRANATE TREE** (*Punica granatum L.*) is native from Iran to the Himalayas in northern India and has been cultivated since ancient times throughout the Mediterranean region of Asia, Africa and Europe. **POMEGRANATE** finds mention in Greek Mythology and literature detailing ancient Hebrew traditions.

POMEGRANATE SEED OIL is obtained by supercritical carbon dioxide extraction, no solvent, additives, antioxidants and other synthetic agents are used to produce it.

POMEGRANATE SEED OIL contains up to 85% of Punicic acid, an Omega 5 conjugated fatty acid. It has been reported that conjugated linoleic acid, has favourable physiological effects, such as anti-atherosclerosis, anti-obesity, anti-tumor and anti-hypertension. The conjugated fatty acids give **POMEGRANATE SEED OIL** strong anti-inflammatory properties, which help to reduce swelling and ease muscular aches¹⁻⁵.

POMEGRANATE SEED OIL adds moisture, has natural estrogenic, anti-oxidant, anti-inflammatory and anti-microbial properties, improves skin elasticity and protects the skin.

Several recent studies, including one conducted by the University of Michigan Medical School⁶ have shown that **POMEGRANATE SEED OIL** helps reverse visible signs of aging by promoting a moderate thickening of the epidermis and increasing dermal cell proliferation and collagen synthesis at the same time⁶.

TECHNICAL DATA

Appearance: Golden yellow, clear oil
 Specific gravity: 0.935 - 0.959 g/ml
 Refractive index: 1.5150 - 1.5250

Fatty Acid	Composition
Oleic Acid	4 - 6 %
Linoleic Acid	4 - 7 %
Punicic Acid (Omega 5)	75 - 85 %

POMEGRANATE SEED OIL

APPLICATIONS



Topical application of **POMEGRANATE SEED OIL** has been shown to promote skin health via several mechanisms. For example, by suppressing lipid peroxidation in the skin, **POMEGRANATE** helps shield against damage induced by ultraviolet light⁷.

POMEGRANATE SEED OIL inhibits two inflammatory enzymes, cyclooxygenase and lipoxygenase, which may help protect the skin against the age-accelerating effects of inflammation⁸.

POMEGRANATE phenolic compounds promote wound healing. Indian researchers noted that a topical pomegranate cream produced an average 35% reduction in the number of days required for complete recovery from an excision wound⁹.

POMEGRANATE SEED OIL is commonly used in cosmetic products to revitalize dull or mature skin, reduce wrinkles, and to soothe minor skin irritations.

POMEGRANATE SEED OIL may be applied directly to the skin and hair. It may also be easily incorporated as an active ingredient or an excellent carrier in skin and hair care products. The recommended dosage is between 3 to 10%.

INCI Name: Punica granatum (Pomegranate) Seed Oil

-
- 1.Lee KN,Kritchevsky D,Pariza MW:Conjugated linoleic acid and atherosclerosis in rabbits. *Atherosclerosis* 1994, 108:19-25.
 - 2.Nicolosi RJ,Rogers EJ,(et al):Dietary conjugated linoleic acid reduces plasma lipoproteins and early aortic atherosclerosis in hypercholesterolemic hamsters. *Artery* 1997, 22:266-277.
 - 3.Park Y, Albright KJ,(et al) :Effect of conjugated linoleic acid on body composition in mice. *Lipids* 1997, 32:853-858.
 - 4.Ip C, Singh M,(et al) :Conjugated linoleic acid suppresses mammary carcinogenesis and proliferative activity of the mammary gland in the rat. *Cancer Res* 1994, 54:1212-1215.
 - 5.Nagao K, Inoue N,(et al):The 10trans, 12cis isomer of conjugated linoleic acid suppresses the development of hypertension (). *Biochem Biophys Res Commun* 2003, 306:134-138.
 - 6.Aslam M, Lansky E, et al.Pomegranate as a cosmeceutical source (). *J.Ethnoph.*103 (2006)311-318
 7. Ashoori F, Suzuki S, Zhou JH, Isshiki N, Miyachi Y. Involvement of lipid peroxidation in necrosis of skin flaps and its suppression by ellagic acid. *Plast Reconstr Surg.* 1994 Dec;94(7):1027-37.
 8. Schubert SY, Lansky EP, Neeman I. Antioxidant and eicosanoid enzyme inhibition properties of pomegranate seed oil and fermented juice flavonoids. *J Ethnopharmacol.* 1999 Jul;66(1):11-7.
 9. Murthy KN, Reddy VK, Veigas JM, Murthy UD. Study on wound healing activity of punica granatum peel. *J Med Food.* 2004 Summer;7(2):256-9.

POMEGRANATE OIL COLD PRESS**CODE** 008045 **SPECIFICATION** **Nº** 00804501

PARAMETERS	SPECIFICATIONS	EDITION - 22/10/2010
Appearance	Transparent yellow to reddish orange oil	
Odor and taste	Characteristic odor and taste of pomegranate.	
Acid Value (mg KOH/g)	max. 4	
Peroxide Value (meq / kg)	max. 10	
Saponification value (mg KOH/g)	185 - 200	
FATTY ACID COMPOSITION	%	
Palmitic acid	1.0 - 5.0	
Stearic acid	0.5 - 3.0	
Oleic acid	3.0 - 7.0	
Linoleic acid	4.0 - 8.0	
Punicic acid	min. 70.0	
Others	0 - 3.0	

PACKING**REMARKS**

STORED AT LOW TEMPERATURE IN A WELL-CLOSED CONTAINER IN COOL PLACE AND AWAY FROM SUN LIGHT.