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SWEET ALMOND OIL ORGANIC

PRODUCT DATA SHEET



SWEET ALMOND OIL ORGANIC is a Vegetable Oil obtained from the dried kernels of the almond tree. Almonds contain folic acid, alpha tocopherol and zinc, which are useful for the treatment of skin disorders. It has been used for centuries both medicinally and cosmetically as a muscle-relaxer, cleanser and moisturizer to name just a few of its applications.

SWEET ALMOND OIL is high in mono and polyunsaturated fatty acids, minerals and glycosides. Fatty acids are necessary along with glycerol for the cell to function normally.

SWEET ALMOND OIL ORGANIC also contains vitamins A, B1, B2, B6 with small amounts of Vitamin E and D. Due to the presence of Vitamin E the oil has antioxidant capability. Antioxidants protect vital cell structures by neutralizing free radicals.
Topical vitamin E has shown to have a wide variety of skin benefits. Many studies have shown that it can help decrease the effects of psoriasis, erythema, and may help in reducing the risk of skin cancer. Vitamin E also helps in the reduction of scaring from wounds and on the appearance of stretch marks on the skin.

TECHNICAL DATA

Appearance:	Pale yellow, oily liquid with minimum odour
Acidity index:	≤ 1.0 mg KOH/g oil
Peroxide value:	≤ 20.0 meq O_2/Kg oil
Specific gravity:	0.90 - 0.93 g/ml

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Fatty acids composition (Fatty Acid Fraction):

Oleic acid	62.0 - 86.0 %
Linoleic acid (Ω6)	7.0 - 30.0 %
Palmitic acid	4.0 - 9.0 %
Stearic acid	Max. 3 %

SWEET ALMOND OIL ORGANIC contains up to 30% of Linoleic Acid, an Omega 6 essential fatty acid. Studies have indicated that it is this high Linoleic Acid content that contributes to reduce the loss of water from the outer most layer of the skin (TEWL, Trans-Epidermal Water Loss), resulting in better moisture retention, which is the key to maintain a healthy skin.

Sterols composition (Sterols Fraction):

β- Sitosterol	73.0 - 87.0 %
Campesterol	Max. 5.0 %
Stigmasterol	Max. 4.0 %
δ 7-stigmasterol	Max. 4.0 %

SWEET ALMOND OIL ORGANIC contains Beta-sitosterol, a phytosterol which has been shown to boost immunity. This is particularly useful to people who are physically stressed, medically unwell or recovering from illness.
Beta-sitosterol has the ability to relieve inflammation, heal ulcers and alleviate cramps. It also has anti-viral, anti-bacterial and anti-fungal agents.



APPLICATION

SWEET ALMOND OIL ORGANIC applies easily, offers deep penetration and significant moisture retention together with high nourishing properties.

SWEET ALMOND OIL ORGANIC is designed for all kinds of cosmetic products from rinse-off to leave-on, showing a great compatibility with all cosmetic ingredients. It has a balanced fatty acid composition between saturated and unsaturated fatty acid chains.

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SWEET ALMOND OIL ORGANIC 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. Recommended dosage is between 3 and 10%.

SWEET ALMOND OIL ORGANIC can also be used directly as massage oil.

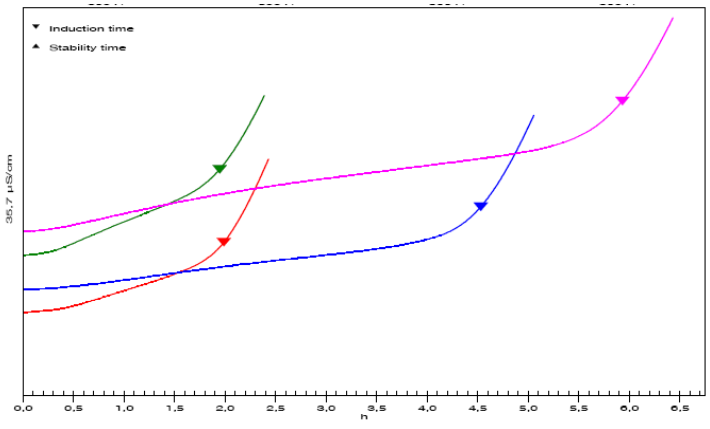
OIL STABILITY INDEX (OSI)

The Oil Stability Index (OSI) was determined using a Rancimat instrument. The rapidity of oxidation of an oil depends on the degree of unsaturation, the presence of antioxidants, and prior storage conditions. In the OSI analysis, the rate of oxidation is slow until resistance to oxidation is overcome. This time is known as the oxidation induction period and it is a tool to determine the useful life of the oil.

SWEET ALMOND OIL ORGANIC OSI: 5.2 hours (100 °C)

ISO 6886 (1996)
Animal and vegetable fats and oils
Determination of oxidation stability
Conditions
Sample amount 2.5 ± 0.01 g
Temperature 100°C ± 0.2°C
Gas flow 20 L/h
Vessel: 50 mL distilled water
Evaluation Conductivity
Induction time (tangent method)

Blue, pink: determination at 100 °C
Red, green: determination at 110 °C



INCI Name: Prunus Amygdalus Dulcis (Sweet Almond) Oil.

Updated: 01/2007
Approved: Dr. Blanca Martínez