

TECHNICAL DATA SHEET

Product Name: Lavender Infused Oil

INCI Name: Lavandula Angustifolia (Lavender) Flower Extract, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

CAS: 90063-37-9, 8001-21-6, 8007-69-0, 59-02-9

Chemical Classification: Mixture

Functional Category: Skin care agent ~ Occlusive, Skin conditioning agent ~ Emollient, Antioxidant

Description: Lavender infused oil is obtained by macerating dried flowers of Lavandula Angustifolia in a high-quality plant oil—a mixture of cold-pressed linoleic-type sunflower oil and sweet almond oil. The maceration process enables the transfer of active compounds from lavender into the base oil, thereby combining the healing properties of the plant and the carrier oils. The resulting oil possesses soothing, anti-inflammatory, and regenerative properties. It is mildly aromatic, with a characteristic herbaceous-floral lavender scent, and its color ranges from yellow to light green, depending on the maceration duration. Due to its calming properties, it is often used in formulations intended for sensitive and irritated skin. It contributes to epidermal regeneration, reduces redness and irritation, and, due to the presence of antioxidants, helps protect the skin from oxidative stress. It can be used as an active ingredient in creams, lotions, serums, and balms, where it additionally hydrates and soothes the skin. In massage oils, it aids muscle relaxation and improves circulation, while in hair care formulations it is used to soothe the scalp and strengthen hair follicles. Lavender infused oil can be included in lip balms, where it supports hydration and soothes chapped skin. It is also suitable for after-sun care, reducing the feeling of tightness and supporting skin recovery. Its compatibility with various oil-based and emulsion systems makes it useful in natural cosmetics formulations, especially in products intended for sensitive and dry skin.

Bioactive Compounds: Lavender infused oil contains bioactive compounds with soothing, regenerative, and anti-inflammatory action. Linalool and linalyl acetate exhibit antiseptic activity, calm irritation, and accelerate skin regeneration. These components contribute to the characteristic lavender scent and have relaxing aromatherapeutic effects. Quercetin, apigenin, and luteolin are flavonoids present in the oil. They possess

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strong antioxidant properties and protect the skin from oxidative stress and premature aging. Caffeic and ferulic acids, as phenolic compounds, further enhance the protective function of the skin. Coumarin has a mild soothing effect, while ursolic and rosmarinic acid help in inflammatory conditions, eczema, and irritations. The base oil influences the chemical profile of the final product. Sunflower and almond oils are rich in oleic and linoleic acids, which hydrate the skin and strengthen its barrier.

Benefits:

- Acts antiseptically, reduces irritation, and soothes the skin
- Accelerates skin regeneration
- Provides strong antioxidant protection
- Reduces inflammatory processes and supports skin regeneration
- Strengthens the skin's defensive function and prevents cell damage
- Protects the skin from UV damage and slows down skin aging
- Improves skin elasticity and acts against wrinkles
- Soothes the skin and reduces redness due to the presence of coumarin
- Has anti-inflammatory action and helps with irritation and eczema
- Reduces redness and protects the skin from oxidative stress
- Improves hydration and skin elasticity thanks to oleic acid
- Strengthens the skin barrier and prevents moisture loss

Usage: Lavender infused oil is used as an active ingredient in various cosmetic formulations. The concentration depends on the type of product and the desired effect. In creams and lotions, it is added in concentrations of 5 to 15%. It provides hydration, calms irritation, and protects the skin from oxidative stress. In lip balms, it is used in a similar percentage. In combination with butters and wax, it enhances regenerative properties and protects chapped skin. In massage oils, the concentration ranges from 50 to 100%. In facial serums, it is used in concentrations between 3 and 10%. It provides hydration without excessive heaviness. In cold process soaps, it is added during the oil mixing phase. The concentration usually ranges between 5 and 10%, depending on the formulation. In hair care products, it is used in concentrations of 10 to 20%. It soothes the scalp and strengthens follicles. In bath and body oils, it is added in concentrations of 10 to 30%. It contributes to skin care and provides a mild aromatherapeutic effect.

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Animal Testing: Substance has not been tested on animals

GMO: Not GMO

Vegan: Contains no animal-derived components

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