

TECHNICAL DATA SHEET

Product Name: Rosemary Infused Oil

INCI Name: Rosmarinus Officinalis Leaf Extract 10:1, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

CAS: 84604-14-8, 8001-21-6, 8007-69-0, 59-02-9

Chemical Classification: Mixture (botanical extract in vegetable oils)

Functional Category: Skin conditioning agent ~ occlusive, Skin conditioning agent ~ emollient, Antioxidant

Description: Rosemary infused oil is obtained by macerating dried leaves of the rosemary plant (*Rosmarinus officinalis*) in a suitable vegetable oil, specifically a mixture of cold-pressed linoleic-type sunflower oil and sweet almond oil. During this maceration process—where the plant material is soaked in the carrier oil over several weeks—liposoluble active substances are extracted from the plant matrix. As a result, valuable rosemary components such as antioxidant compounds, essential oil fractions, plant phenols, and flavonoids become integrated into the base oil, giving it a characteristic color and pleasant herbal scent. This oil is known to stimulate skin microcirculation and is traditionally used in formulations aimed at strengthening hair roots and reducing hair loss. Additionally, it soothes irritated scalps, helps regulate sebum production, and supports the care of problematic skin prone to dandruff or itching. Owing to its natural antioxidant content, rosemary infused oil protects the skin from premature aging, nourishes it, and promotes regeneration. It has a pleasant texture, is easy to apply and quickly absorbed, leaving the skin hydrated without a greasy feel. It is suitable for all skin types, including those prone to pore blockage, as it is non-comedogenic. However, it is essential to differentiate between rosemary infused oil and the far more concentrated rosemary essential oil, which requires dilution before use. To maintain its quality, the oil should be stored away from light and heat, preferably in cooler environments, which ensures its stability and preservation of its beneficial properties.

Bioactive Compounds: Rosemary infused oil is rich in bioactive substances, particularly phenolic acids—rosmarinic, carnosic, and caffeic acids—renowned for their potent antioxidant activity. These compounds protect skin cells from oxidative damage and premature aging. Alongside phenolic acids, flavonoids are also present—plant com-

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pounds that calm irritated and sensitive skin, reduce inflammatory processes, and enhance the oil's antioxidant efficacy. The oil also contains small amounts of volatile components from rosemary essential oil, enough to provide its distinct aroma and therapeutic benefits. Notable among these are cineole, camphor, borneol, and pinene. Cineole exhibits antiseptic properties, alleviates skin irritation, and stimulates microcirculation, promoting a healthier skin appearance and stronger hair roots. Camphor, with its refreshing scent, has mild analgesic properties, soothes sensitive skin, and relieves itching. Borneol offers antimicrobial and anti-inflammatory effects, while pinene supports skin regeneration and further soothes the skin. These bioactive constituents, integrated within the oil base, act synergistically to promote skin regeneration, strengthen hair follicles, regulate sebum production, and reduce scalp irritation and dandruff. Thanks to these properties, rosemary infused oil effectively nurtures, restores, and protects the skin, with a pleasant texture that ensures ease of use.

Benefits:

- Protects skin cells from premature aging due to strong antioxidant action
- Soothes irritation, redness, and skin sensitivity
- Reduces inflammation of the skin and scalp
- Stimulates microcirculation, thereby strengthening the hair root
- Relieves itching and scalp irritation
- Regulates sebum secretion and reduces dandruff
- Encourages skin regeneration and repair
- Provides mild antiseptic and antimicrobial effects
- Conditions the skin without clogging pores or leaving a greasy residue
- Leaves a pleasant, natural herbal scent on skin and hair

Application: Rosemary infused oil is used in cosmetic products at concentrations depending on the formulation purpose and product type. In more intensive treatments for skin and hair, such as oil serums, nourishing masks, or balms, a higher percentage is recommended. For lighter products, lower concentrations are used. In leave-on facial and body care formulations, it is typically included in a range of 1% to 20%, depending on the desired properties, texture, and efficacy. In hair care products, particularly those designed to promote hair growth or balance scalp oiliness, concentrations of 1% to 10% are most commonly used, ensuring effective stimulation of scalp circulation without leaving a greasy feel. During cosmetic product formulation, rosemary infused oil can be

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added directly or combined with other ingredients. It is important to ensure even distribution throughout the formulation for optimal effectiveness and a pleasant texture.

Animal Testing: Not tested on animals

GMO: Non-GMO

Vegan: Contains no animal-derived components



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