

TECHNICAL DATA SHEET

Product Name: Calendula Infusion Oil

INCI Name: Calendula Officinalis Extract, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

CAS: 84776-23-8, 8001-21-6, 8007-69-0, 59-02-9

Chemical Classification: Mixture

Functional Category: Skin Conditioning Agent ~ Occlusive, Skin Conditioning Agent ~ Emollient, Antioxidant

Description: Calendula Infusion Oil is obtained by macerating the Calendula Officinalis flower in a suitable vegetable oil using the so-called Stove-Top method. Medicinal compounds slowly transfer from the plant material into the oil through maceration, enhancing the combined therapeutic effects of the plant and the oil used for infusion. The carrier oil used is cold-pressed linoleic-type sunflower oil, which has a higher content of essential linoleic acid and a smaller amount of oleic acid, along with sweet almond oil. By adding vitamin E as a natural preservative, this oil maintains its freshness and quality while remaining completely natural. Calendula oil is known as one of the most important botanical oils for skin care. Calendula is recognized for its soothing and regenerative properties, making this oil suitable for sensitive, irritated, and dry skin. Its mild nature helps reduce redness and accelerates epidermal regeneration, making it commonly used in formulations for treating damaged skin, eczema, and mild inflammatory conditions. The presence of antioxidant compounds supports skin protection against oxidative stress and premature aging. Calendula Infusion Oil is easily absorbed and can be used on its own or as an ingredient in cosmetic formulations, including creams, balms, and serums. It is suitable for all skin types and is particularly recommended for baby care and individuals with sensitive skin due to its mild yet effective care properties.

Bioactive Compounds: Calendula Infusion Oil contains a wide range of bioactive compounds that contribute to its soothing, regenerative, and antioxidant properties. Key components include flavonoids, triterpenoid saponins, carotenoids, sterols, and essential fatty acids. Flavonoids, such as quercetin and isorhamnetin, act as strong antioxidants and help reduce oxidative stress. They also have anti-inflammatory properties that help calm skin irritations and redness.

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Triterpenoid saponins, such as oleanolic and ursolic acid, provide significant regenerative and anti-inflammatory effects, aiding in skin repair and reducing symptoms of inflammatory conditions such as eczema and dermatitis. Carotenoids, mainly beta-carotene and lutein, give calendula oil its characteristic color and provide strong antioxidant protection. Their presence helps neutralize free radicals and strengthen the skin barrier, improving its resistance to harmful external factors. Plant sterols, such as sitosterol and stigmasterol, stabilize the skin's lipid structure and help maintain the hydro-lipid balance, which is especially important for dry and sensitive skin. Essential fatty acids, including linoleic and oleic acid, allow easy absorption of the oil and improve skin hydration. Their role in strengthening the skin's protective barrier helps reduce transepidermal water loss and maintain tissue elasticity. The combination of these bioactive compounds makes calendula-infused oil an effective ingredient in formulations aimed at skin regeneration, protection, and soothing.

Benefits:

- Provides strong antioxidant protection due to flavonoids
- Has pronounced anti-inflammatory effects and soothes irritated skin
- Promotes epidermal regeneration and speeds up the recovery of damaged skin
- Protects the skin from oxidative stress and slows down premature aging
- Strengthens the skin barrier and reduces moisture loss
- Improves elasticity and contributes to softer and more hydrated skin
- Provides natural protection against external aggressors and strengthens skin

resistance

Usage Instructions: Calendula Infusion Oil can be used on its own or as part of cosmetic formulations, depending on the product type and desired effects. Lip and body balms: Typically added at 5–20 percent, where it contributes to soothing and protective effects. Creams and lotions for sensitive skin: Used at 2–10 percent, allowing regenerative action without an overly greasy feel. Oil blends for skin care: Can make up to 50 percent of the formulation, especially when used for treating dry and irritated areas. Soaps: Included at up to 5 percent, to preserve its properties despite the saponification process. Serums and treatment oils: Used at 10–30 percent, depending on the combination with other active ingredients, for intensive soothing action

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Animal Testing: The substance has not been tested on animals

GMO: Not GMO

Vegan: Contains no animal-derived ingredients



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