

TECHNICAL DATA SHEET

Product name: Aloe Vera Oil

INCI name: Aloe Barbadensis Leaf Extract, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

CAS: 85507-69-3/94349-62-9, 8001-21-6, 8007-69-0, 59-02-9

Chemical classification: Fats and Oils

Functional category: Skin conditioner, conditioner for normal, dry, and dehydrated hair
~ Emollient

Description: Aloe Vera infused oil is obtained by macerating Aloe barbadensis leaf extract in a suitable vegetable oil. A blend of sunflower and almond oil is used as a carrier oil, with vitamin E as a preservative. The sunflower oil is cold-pressed and of the linoleic type (containing a higher proportion of essential linoleic acid and a smaller amount of oleic acid). The maceration process allows active compounds from the plant to transfer into the base oil, combining the beneficial properties of both the plant and the vegetable oil blend. The oil is rich in bioactive compounds that contribute to its moisturizing, soothing, and regenerative properties. Due to its mild action, it is suitable for all skin types, including sensitive skin. It is particularly valued in formulations for dry and irritated skin, as it helps restore the protective barrier and reduces the feeling of tightness. Besides hydration, its anti-inflammatory components help reduce redness and irritation caused by external factors such as sun exposure, wind, or chemical treatments. It is suitable for use in balms, lotions, and serums for skin and hair care. In hair products, it provides protection and moisture, reduces brittleness, and makes the hair softer. Aloe Vera oil is easily absorbed, does not leave a heavy feeling on the skin, and can be used as part of a daily routine. Due to its versatility, it is often combined with other plant oils and active ingredients to enhance the effectiveness of body and face care formulations.

Bioactive compounds: Aloe Vera oil contains a wide range of bioactive compounds that contribute to its moisturizing, soothing, and regenerative properties. Polyphenols are known for their strong antioxidant activity. These compounds help neutralize free radicals, reducing oxidative stress and slowing the skin aging process. Their presence also contributes to protecting the skin from the harmful effects of UV radiation and

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pollution, making it an excellent ingredient in facial care formulations. In addition to polyphenols, Aloe Vera oil is rich in phytosterols (Lupenol, β -sitosterol, and Campesterol), which have exceptional anti-inflammatory properties. Their action is particularly beneficial for sensitive and irritated skin, as they reduce redness and soothe inflammatory processes. Phytosterols also participate in restoring the skin's lipid barrier, improving its elasticity, and reducing transepidermal water loss, contributing to long-lasting hydration and protection against dryness. The presence of essential fatty acids further enhances the nourishing properties of this oil. These acids play a key role in preserving cell membrane structure and regenerating damaged tissue. They also help strengthen the skin's natural protective barrier, reducing its tendency to irritation and hypersensitivity. Another significant group of bioactive compounds includes polysaccharides, such as acemannan, which exhibit strong moisturizing properties and support the skin's natural regeneration process. These complex sugars form a thin protective layer on the skin's surface, retaining moisture and improving smoothness. Additionally, polysaccharides have a soothing effect, helping treat skin prone to irritation, dryness, or damage caused by external factors. Thanks to the synergy of these bioactive compounds, Aloe Vera oil provides multiple benefits in cosmetic formulations, from intensive hydration and skin renewal to protection against oxidative stress and inflammatory processes. Its effectiveness makes it one of the key ingredients in products intended for the regeneration and care of sensitive, dry, and damaged skin.

Benefits:

- Helps hydrate the skin and retain moisture, making it soft, smooth, and elastic.
- Soothes sensitive and irritated skin, reducing redness, inflammation, and itching.
- Protects the skin from free radicals and slows the appearance of fine lines, wrinkles, and age spots.
- Has antibacterial and anti-inflammatory effects, reduces acne, accelerates the healing of blemishes, and minimizes scars.
- Nourishes and hydrates the scalp, strengthens hair, reduces dryness, and promotes healthy growth.
- Encourages the healing of minor wounds and irritations, forming a protective layer that prevents infections and speeds up skin regeneration.

Usage: Aloe Vera oil is used as an addition to moisturizing and regenerative formula-

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tions, with its concentration adjusted depending on the specific purpose of the product. In creams and lotions for dry and dehydrated skin care, it is typically included at 2% to 10% to provide long-lasting hydration and a soothing effect. For products intended for sensitive or irritated skin, such as serums and balms, it is used at slightly lower concentrations, between 1% and 5%, to achieve an optimal balance between regenerative action and light texture. In acne treatment formulations, it can be used at a concentration of 2% to 5%, where its antibacterial and anti-inflammatory properties help reduce inflammation and soothe the skin. In hair and scalp care products, such as masks, serums, or oil treatments, it is present in a range of 5% to 20%, contributing to strengthening the hair, reducing dryness, and improving elasticity. In lip balms or protective ointments for sensitive areas of the skin, it can be used at higher concentrations, up to 30%, where it helps heal cracked skin and provides protection from drying out. Due to its mild nature, it can also be applied directly to the skin in its pure form, but it is more commonly included in formulations combined with other emollients for better absorption and increased effectiveness.

Animal testing: The substance has not been tested on animals.

GMO: Non-GMO

Vegan: Does not contain animal-derived components.

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