

TECHNICAL DATA SHEET

Product Name: Aloe Vera Juice

INCI Name: Aloe Barbadensis Leaf Juice, Sodium Benzoate, Potassium Sorbate

CAS: 85507-69-3, 532-32-1, 24634-61-5

Chemical Classification: Plant Product

Functional Category: Skin Conditioning Agent

Description: Aloe vera juice is derived from the gel-like substance found inside the leaves of the Aloe vera plant (*Aloe barbadensis* Miller). The extraction process begins with washing the leaves to remove impurities. Then, the outer green layer of the leaf is carefully removed to access the inner gel-like structure. This gel is then extracted, usually by cold extraction, to preserve all beneficial components. After extraction, the juice is filtered to remove any remaining particles and then stabilized and preserved for further use in cosmetic products. Due to the presence of polysaccharides and other components, the juice has a consistency slightly thicker than water, but not as thick as gel. This moderate viscosity makes the juice easy to apply. The juice is rich in vitamins A, B1, B2, B3, B6, B12, C, E, minerals, and amino acids, which contribute to its moisturizing and healing effects. It also contains anthraquinones (aloin and emodin), flavonoids, enzymes (carboxypeptidases), salicylic acid, saponins, sterols, sugars (starch), and lectins. The juice can help soothe irritated skin, reduce inflammation, and promote a healthy, radiant complexion. Its light texture allows for easy absorption and deep nourishment without leaving a greasy residue on the skin. It is ideal for all skin types and can be used in various formulations, from facial tonics and serums to body lotions and hair care products. It is water-soluble and non-GMO. The juice is a yellowish liquid with a mild odor.

Benefits:

- **Skin Hydration:** Deeply hydrates the skin, helping to maintain its moisture and elasticity without leaving a greasy feel.
- **Soothing Effect:** Calms irritations, redness, and inflammation, making it ideal for sensitive and damaged skin.
- **Antibacterial Properties:** Helps fight bacteria, reducing the occurrence of acne

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and pimples.

- **Wound Healing:** Promotes faster healing of minor wounds, burns, and abrasions due to its regenerative properties.
- **Antioxidant Protection:** Rich in antioxidants, protects the skin from harmful free radicals and premature aging.
- **Skin Renewal:** Aids in skin renewal and revitalization, making it softer and smoother.
- **Balancing Complexion:** Evens out skin tone and reduces the visibility of dark spots and hyperpigmentation.
- **Mild Exfoliant:** Helps remove dead skin cells.
- **Reduces Swelling:** Reduces swelling and under-eye bags, leaving the skin around the eyes fresh and rested.

Usage in Cosmetic Products: Aloe Vera Leaf Juice can be used in various ways in cosmetic products, with recommended concentrations depending on the product type and desired effects. For moisturizing creams and lotions, Aloe Vera Juice can be used in concentrations of 5% to 10% to provide deep hydration and soothing effects. In facial serums and tonics, it is often used in higher concentrations, up to 50%, to take advantage of its ability to calm irritations and hydrate the skin without feeling heavy. In hair care products like shampoos and conditioners, Aloe Vera Juice can be added in concentrations of 2% to 5% to help maintain moisture and scalp health. For face masks, it is recommended to use concentrations of 10% to 20% to provide optimal care and skin regeneration. When used in sun care and after-sun products, Aloe Vera Leaf Juice can help soothe the skin and accelerate the healing of mild sunburns, with recommended concentrations of 5% to 10%. In these cases, Aloe Vera Juice is often combined with other soothing and moisturizing ingredients to achieve a synergistic effect.

Note: The low pH value of this solution can lower the pH when added to a formulation, potentially causing emulsion separation. In some formulations, it may need to be used at a low concentration or with a pH-raising ingredient such as TEA for stabilization. Using litmus paper to measure pH is necessary when using TEA. This is a natural product that may darken over time. For external use only.

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

GMO: Not genetically modified.

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Vegan: Does not contain animal-derived components.

Storage Instructions: Protect from oxidation. Store at room temperature.



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