

TECHNICAL DATA SHEET

Product Name: Hibiscus Flower Infused Oil

INCI Name: Hibiscus sabdariffa Flower Extract, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

CAS Number: 84775-96-2, 8001-21-6, 8007-69-0, 59-02-9

Botanical Name: Hibiscus sabdariffa

Chemical Classification: Mixture

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

Description: Hibiscus infused oil is obtained by macerating Hibiscus sabdariffa flowers in sunflower and sweet almond oil. This process enables the extraction of valuable bioactive compounds such as polyphenols, flavonoids, and organic acids, which offer potent antioxidant and regenerative benefits to the skin. Flavonoids and anthocyanins present in hibiscus combat free radicals, shielding the skin from oxidative stress and premature aging. Citric and malic acids provide gentle exfoliation, stimulating cell renewal and improving skin texture. Natural polysaccharides enhance hydration by binding moisture and maintaining optimal skin moisture levels. Maceration in sunflower and almond oil boosts the emollient qualities of this ingredient. Sunflower oil is rich in linoleic acid, which strengthens the skin barrier and reduces transepidermal water loss, while almond oil provides deep nourishment and enhances skin elasticity, leaving it soft and smooth. Thanks to its composition, hibiscus infused oil acts as a natural antioxidant suitable for the care of dry, sensitive, and mature skin. It can also support hair health by strengthening and protecting strands, while offering a mild brightening effect.

Bioactive Compounds: Hibiscus infused oil contains numerous bioactives beneficial for skin and hair care. Flavonoids such as quercetin and myricetin act as strong antioxidants, protecting the skin from oxidative damage and slowing aging. Anthocyanins like delphinidin and cyanidin give hibiscus its reddish hue, strengthen capillaries, and reduce skin redness. Organic acids—including citric, malic, and hibiscus acid—gently exfoliate, remove dead cells, enhance glow and texture, regulate pH, and promote epidermal regeneration. Natural polysaccharides such as pectin and mucilage form a protective layer, preventing moisture loss and improving hydration. Fatty acids like linoleic and

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oleic acid strengthen the skin barrier, improve elasticity, and restore the lipid layer. Sterols, including beta-sitosterol, soothe the skin and reduce inflammation. Tocopherol (vitamin E) enhances antioxidant properties, protects skin lipids from oxidation, and slows aging. These components work synergistically to hydrate, protect, and regenerate the skin while improving hair elasticity and promoting a healthy appearance.

Benefits:

- Deeply hydrates the skin due to the moisture-binding properties of glycerin
- Soothes irritation and redness through the action of botanical bioactives
- Helps protect the skin against oxidative stress thanks to antioxidant components
- Gently improves skin tone and contributes to a more even complexion
- Refreshes the skin without drying it out, as water and glycerin support natural moisture balance
- Enhances the efficacy of other actives by improving their absorption
- May support mild exfoliation if natural organic acids are present
- Suitable for all skin types, including dry and sensitive skin, due to its gentle formulation

Usage: Hibiscus infused oil is used in cosmetics as an emollient, antioxidant, and conditioning agent for both skin and hair. It can be added to the oil phase of emulsions or used directly in anhydrous products such as balms and oil serums. In moisturizers and lotions, it is used at concentrations ranging from 2% to 10%, where it improves skin softness and elasticity. In oil serums and treatment oils, it can be used at 10% to 100%, depending on the desired effect. For body balms and butters, it is ideal in the 5% to 15% range, providing intensive care and regeneration. For hair care, it is added to oils and masks at 2% to 10%, helping to strengthen hair strands and improve elasticity. It may also be applied alone to hair ends for extra protection and hydration. In emulsions, a suitable emulsifier must be chosen to ensure formula stability. In anhydrous products, it enriches texture and boosts nutritive properties.

Animal Testing: Not tested on animals

GMO: Non-GMO

Vegan: Contains no animal-derived ingredients

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