

## TECHNICAL DATA SHEET

**Product name:** Borage Seed Oil

**INCI name:** Borago officinalis (Borage) Seed Oil

**CAS:** 84012-16-8; 225234-12-8

**Synonyms:** Borago officinalis L., Starflower

**Chemical classification:** Fats and Oils

**Functional category:** Skin and hair conditioning ~ Emollient

**Extraction method:** Cold pressed

**Processing type:** RBDW

**Oil characteristics:** Borage oil is obtained from the seeds of the Borago officinalis plant. The oil is known for its high content of gamma-linolenic acid (GLA) and omega-6 fatty acid. It also contains other essential fatty acids such as linoleic and oleic acids, as well as vitamins A, D, K, and vitamin E (tocopherol), which acts as an antioxidant. The oil contains phytosterols, squalene, a compound that can aid in skin hydration and moisturization. The GLA and vitamin E in borage oil provide it with antioxidant properties that can protect skin cells from oxidative stress. The oil is light yellow in color, but the color can vary depending on factors such as processing and purity. The oil has a mild nutty scent. At room temperature, it is in a liquid state and has a relatively light, non-greasy texture. It is easily absorbed into the skin. The density of borage oil is approximately 0.92 grams per milliliter. Like many natural oils, borage oil can be sensitive to oxidation and may degrade over time when exposed to air, light, and heat. Proper storage in a cool, dark place can extend its shelf life.

### Benefits:

- **Hydration:** Borage oil is rich in gamma-linolenic acid (GLA), an omega-6 fatty acid that helps retain moisture and preserve skin hydration. It is an excellent choice for dry or dehydrated skin.
- **Anti-inflammatory action:** Borage oil is known for its anti-inflammatory proper-

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ties. It soothes irritated or inflamed skin. It is excellent in preventing stretch marks and in alleviating eczema, psoriasis, and neurodermatitis.

- **Supports the skin's protective layer:** GLA in borage oil helps strengthen the natural protective layer of the skin, reducing moisture loss and protecting it from external irritants.

- **Anti-aging effect:** The antioxidant properties of the oil, along with essential fatty acids, can help reduce signs of aging, including the appearance of fine lines and wrinkles. Regular use can contribute to a younger-looking skin.

- **Skin regeneration:** The oil can promote skin cell regeneration, and is used for faster healing of minor wounds and the removal of scars.

- **Improves complexion:** Borage oil can help even out skin tone, making it a valuable ingredient in face serums and creams.

- **Does not clog pores:** The oil will not clog pores or cause pimples, making it suitable for use in skin care products for people with oily skin and acne.

- **Hair care:** The oil can be used in hair care products. Gamma-linolenic acid nourishes cells and contributes to the health of the scalp and hair. It promotes hair growth and repairs dry and damaged hair. The oil softens the hair, making it shinier and easier to style.

**Use in cosmetic products:** Used in products for the care of dry skin. It is an ingredient in creams, lotions, hair care products, lip care products, and sun protection preparations.

**Animal testing:** The substance is not tested on animals

**GMO:** Non-GMO

**Vegan:** Does not contain animal-derived components