

## TECHNICAL DATA SHEET

**Product Name:** Octyldodecanol

**INCI Name:** Octyldodecanol

**CAS:** 5333-42-6

**Synonyms:** Saboderm G20, Octyl-2-dodecanol, 2-Octyldodecyl alcohol

**Chemical Classification:** Alcohol

**Functional Category:** Skin and Hair Conditioning Agent ~ Emollient, Solvent

**Description:** Octyldodecanol is a high-quality emollient frequently used in cosmetic products for its ability to provide a silky smoothness and long-lasting hydration to the skin. This ingredient is highly valued for its versatility — it stabilizes emulsions, prevents moisture loss, and facilitates easy application. It is especially useful as a solvent for lipophilic ingredients, allowing for better distribution of pigments and active components, such as vitamins and natural oils, thus enhancing their bioavailability. Highly stable, it resists hydrolysis. It belongs to the group of medium-spreading emollients and serves as an alternative to silicone oils. Octyldodecanol is also a solvent for fragrance ingredients and essential oils, and is ideal for dissolving salicylic acid. It appears as a clear liquid, insoluble in water, and is mixable with alcohol. HLB = 11.

### Benefits:

- Provides long-lasting hydration and softens the skin.
- Stabilizes emulsions, adding the appropriate viscosity to formulations.
- Improves product texture and enables smooth application.
- Serves as a solvent for lipophilic active ingredients, increasing their efficacy.
- Excellent solvent for fragrance ingredients and essential oils.
- Non-greasy and leaves the skin feeling pleasant to the touch.

**Usage:** Octyldodecanol is used in cosmetic products for its emollient and stabilizing properties. In skin creams and lotions, it is often added at concentrations of 2% to 5% to enhance texture and provide a silky feel after application. In lipstick and lip balm production, it is used at higher concentrations, usually between 5% and 15%, as it allows

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for smooth application and long-lasting hydration for the lips. In formulations such as shampoos and conditioners, it may be used at concentrations of 1% to 3% to improve conditioning properties and add shine to the hair. When creating sunscreen products or decorative cosmetics, octyldodecanol aids in dispersing pigments and active ingredients, with typical concentrations varying based on the formulation's specific needs. It's important to adjust the amount of octyldodecanol to achieve the desired product characteristics and perform stability testing to ensure optimal results.

**Source of Raw Materials:** Vegetable oils (coconut/palm oil)

**Production Method:** Derived from natural fats and oils through the reduction of fatty acids to a hydroxyl functional group.

**Animal Testing:** This substance has not been tested on animals.

**GMO:** Non-GMO

**Vegan:** Contains no animal-derived components

**Origin of Raw Material:** Italy

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