

Stabil

INCI name: *Phenethyl alcohol,*
Caprylyl glycol.

Appearance: Clear colorless liquid with mild rose-like odor

Description

Stabil is an optimized combination of multifunctional ingredients with skin emollient, wetting agent and mild fragrance properties, besides exhibits a broad spectrum antimicrobial activity. This system represents an alternative to traditional cosmetic preservatives, allowing to create self-preserving formulations with reduced irritant and sensitizing potential.

Stabil is globally approved, doesn't contain preservatives listed in EU Annex VI and allows the claim preservative-free.

Antimicrobial activity

Stabil is a multifunctional system with synergistic activity against Gram-negative bacteria, Gram-positive bacteria, yeasts and molds. The antimicrobial action is due to a combined effect on microbial membrane able to inhibit and destroy microorganisms.

Properties and stability

Stabil is very soluble in alcohols, glycols and polar oils, soluble in mineral oil, slightly soluble in water. It is stable and effective in the pH range 4-8 and may tolerate working temperature upto 80°C.

Applications

Stabil provides multiple benefits to cosmetic formulations as skin moisturizer, wetting/refatting agent, skin-feel improver and rose-like fragrance; in addition prevents microbial growth. Optimal for the design of self preserving formulations and natural products, it is particularly suitable for emulsions, oil-based and surfactant-based formulations. May be used in aqueous formulations upto its solubility limit.

The suggested applications include:

- *Hair care:* shampoos, lotions, conditioners.
- *Skin care:* tonics, gels, lotions, creams, cleansings, oils.
- *Make up:* foundations, lipsticks.
- *Sun products:* sunscreens, suntans, aftersuns.
- *Bath products:* shower gels, bubble baths, handcleaners, intimates.
- *Baby care:* shampoos, bath products, gels, lotions, creams, oils.

Use levels

Stabil can be used at levels of 0.6-1.2%. It is synergistic in combination with chelating agents.

Its use in the correctly designed and manufactured products allows the self-preservation, without making use of further antimicrobials.

May support conventional preservatives allowing a significant reduction of their use levels.

Regulatory approval

EU: allowed without restrictions in all products (not listed in Annex VI).

USA: allowed in all products.

Japan: allowed without restrictions in all products (not listed in the preservatives list).

Technical support

Akema microbiological laboratory offers its technical/analytical support and suggests the optimal use levels on the basis of preservative efficacy testing (Challenge test).

For further information, documentation and sample please contact us.