

# STABIL

MULTIFUNCTIONAL SYSTEM WITH ANTIMICROBIAL PROPERTIES



## INCI NAME:

Phenethyl alcohol,  
Caprylyl glycol.

## APPEARANCE:

Clear colorless liquid  
with mild rose-like odour

## 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 & 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.



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