



Kemaben DHA

INCI name: *Phenoxyethanol*
Methylparaben
Dehydroacetic Acid

Appearance: Clear yellowish liquid

Description

Kemaben DHA is a unique preservative blend based on widely accepted cosmetic preservatives. Optimized combination with broad spectrum activity and superior water solubility provides highly effective protection against both bacteria and fungi to a wide range of personal care products. Kemaben DHA is globally approved and suggested for the preservation of aqueous, emulsions & oil-based formulations with low pH.

Antimicrobial activity

Kemaben DHA is a balanced combination of the antibacterial activity of phenoxyethanol with the antifungal activity of methylparaben & dehydroacetic acid.

It is effective against Gram-negative bacteria and Gram-positive bacteria, yeasts and moulds.

Due to presence of an organic acid, the activity depends on the pH of the formulation, the lower the pH the higher the antimicrobial activity with maximum effect in the pH range 3-6.

Properties & stability

Kemaben DHA is very soluble in alcohols, glycols and polar oils, soluble in water to 1.7%.

It is effective in pH range 3-6 and may tolerate working temperature up to 80°C.

Applications

Kemaben DHA can be easily incorporated in a wide variety of formulations both aqueous systems and cosmetics with high content of oils. Typical applications include:

- *Hair care:* shampoos, lotions, conditioners, gels, mousses.
- *Body & face care:* serums, tonics, gels, lotions, creams, oils, masks, wipes.
- *Make-up:* foundations, mascaras, wipes.
- *Shaving products:* shave soaps, gels; after shave balms, lotions, creams.
- *Sun products:* lotions, creams, oils, sunscreen lipsticks, suntans, aftersun gels.
- *Bath products:* shower gels, bubble baths, handcleaners, intimate, wipes.
- *Baby care:* shampoos, bath products, lotions, creams, ointments, oils, wipes.
- *Raw materials:* surfactants.

Use levels

Kemaben DHA can be used at 0.4-1.0%. No further antimicrobials are required for the product preservation.

Regulatory approval

The components of Kemaben DHA have been widely used cosmetic preservatives for decades, all were extensively tested and approved by FDA & EU scientific committees. Kemaben DHA has a wide regulatory acceptance, which allows to formulate cosmetics for worldwide distribution.

Kemaben DHA is approved for cosmetics in *EU, China & ASEAN* in rinse-off and leave-on products, not in aerosols. In *USA & Japan* it is allowed in all categories of cosmetics.



Technical support

Our microbiological laboratory can support customers in the preservative choice; the optimal preservation is suggested on the basis of challenge tests conducted on specific cosmetics.
For further information, documentation and samples please contact us.

Highlights

- ✓ Complete spectrum & highly effective preservation.
- ✓ Based on long used preservatives.
- ✓ Contains only the shortest chain paraben.
- ✓ Easy to use system compatible with most cosmetics.
- ✓ Reduced use levels & budget-friendly costs.