

## Kem K

**INCI composition:** *Phenoxyethanol*  
*Potassium Sorbate*  
*Water*

**Appearance:** Clear pale yellow liquid

### Description

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Kem K is a preservative blend based on the globally accepted cosmetic preservatives Phenoxyethanol and Potassium sorbate. This optimised combination provides broad spectrum antimicrobial protection to a large range of personal care formulations with a slight acidic pH.

Kem K represents a mild alternative in cosmetic preservation, may replace paraben-based blends and other questioned preservatives, offering high antimicrobial efficacy and lower in-use cost.

Kem K meets the more stringent demands of today's market for personal care products, allowing the creation of formulations for worldwide distribution.

### Antimicrobial activity

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Kem K combines the antibacterial activity of Phenoxyethanol with the antifungal activity of Potassium sorbate. This is a well balanced combination of actives highly effective against Gram-negative bacteria, Gram-positive bacteria, yeasts and molds.

### Properties and stability

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Kem K is soluble in water, alcohols and glycols. Stable to discoloration and low storage temperature, may tolerate working temperature upto 80°C.

Due to the presence of an organic acid the antimicrobial activity is higher at acid pH values, preferably in the pH range 3-6.

### Applications

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Kem K is a mild and tolerable preserving system for the antimicrobial protection of a variety of personal care products, particularly aqueous systems and emulsions. Typical cosmetic and dermo-pharmaceutical applications include:

- *Hair care:* gels, shampoos, lotions, conditioners, mousses.
- *Body and face care:* serums, tonics, gels, lotions, creams, wipes.
- *Make-up:* foundations, wipes, powders.
- *Shaving products:* shave soaps, gels, aftershave balms, lotions, creams
- *Sun products:* sunscreens, suntans, aftersuns.
- *Bath products:* shower gels, bubble baths, handcleaners, intimate, oils, powders, wipes.
- *Baby care:* shampoos, bath products, lotions, creams, oils, powders, wipes.
- *Raw materials:* surfactants, vegetal extracts.
- *Topical pharmaceutical products:* lotions, creams.

### Use levels

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Kem K may be used in the range of 0.5-1.2%, at this levels no further antimicrobials are normally required for product preservation.

### Regulatory approval

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The components of Kem K were extensively tested and recognized as safe; the product enjoys a global regulatory acceptance, allowing to formulate global cosmetics.

Kem K is approved in *EU*, *USA* and *Japan* in all categories of cosmetics without restrictions.

### Technical support

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Our microbiological laboratory supports customers with a challenge testing service; the most adequate preservation is suggested on the basis of tests conducted on single formulations.

For further information, documentation and sample please contact us.