



## 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 slight acid 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 moulds.

### 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 up to 80°C. Due to the presence of 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 skin tolerable preserving system for the antimicrobial protection of a variety of personal care products, particularly aqueous systems & emulsions. Typical cosmetic applications include:

- *Hair care:* gels, shampoos, lotions, conditioners, mousses.
- *Body & 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.

### Use levels

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Kem K may be used in the range of 0.5-1.0%, at these levels no further preservatives are normally needed.

### Regulatory approval

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

Kem K is approved in *EU, USA, Latin America, Japan, China & ASEAN countries* in all categories of cosmetics without restrictions.



### **Technical support**

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Our microbiological laboratory supports customers during product development and help to achieve the most adequate preservation. Challenge testing can be offered to determine the optimal level of preservative in finished cosmetics.

For further information, documentation and samples please contact us.

### **Highlights**

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- ✓ Broad spectrum & gentle to the skin preservation
- ✓ Globally accepted cosmetic ingredients
- ✓ Contains no controversial preservatives
- ✓ Combination with high concentration of actives
- ✓ Does not modify odour & viscosity of cosmetics
- ✓ Water soluble
- ✓ Cost-effective