



## Kem DHA

**INCI composition:** *Benzyl Alcohol*  
*Dehydroacetic Acid*  
*Water*

**Appearance:** Clear pale yellow liquid

### Description

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Kem DHA is a broad spectrum preservative based on nature-identical substances. It represents a gentle and efficacious alternative in cosmetic preservation, designed to replace other preservatives which are currently questioned. With global approval in personal care products, Kem DHA is widely used for the protection of a wide range of cosmetics with slight acid pH.

Kem DHA is permitted in natural & organic cosmetics in accordance with the main certification standards (COSMOS, Ecocert, Soil Association, BDIH, ICEA, Natrue).

### Antimicrobial activity

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Kem DHA is a well-balanced combination of the antibacterial benzyl alcohol with the antifungal dehydroacetic acid. It provides effective protection against Gram-negative & Gram-positive bacteria as well as against yeasts & moulds. Due to the presence of an organic acid, the antimicrobial activity increases when the pH is lowered with the best effect at acid pH up to 6.5-7.0.

### Properties and stability

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Kem DHA is very soluble in alcohol, freely soluble in propylene glycol, slightly soluble in water. May tolerate working temperature up to 80°C. It should be used in cosmetics with pH from 3.0 to 6.5-7.0 maximum.

### Applications

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Kem DHA can be used to protect a variety of cosmetics against microbial growth, particularly aqueous systems, surfactants, emulsions & oils. It is also allowed for use as synthetic preservative in natural cosmetics according to main certification bodies.

Typical personal care 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 DHA may be used at concentrations of 0.2-0.8% with no additional preservatives.



### **Regulatory approval**

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The components of Kem DHA were extensively tested and used in cosmetics, pharmaceuticals and foods. The global regulatory acceptance allows to formulate cosmetics for worldwide distribution and for natural market.

Kem DHA is approved worldwide (*EU, USA, Brazil, Latin America, Japan, China, ASEAN*) in cosmetics for both rinse-off & leave-on. It is not allowed in products to be aerosolized in *EU, Brazil, ASEAN*.

### **Technical support**

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Challenge test service can be offered to customers; the optimal preservation is suggested on the basis of tests conducted on specific formulations.

For further information, documentation and sample please contact us.

### **Highlights**

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- ✓ Gentle to the skin & broad spectrum preservation.
- ✓ Popular & globally accepted cosmetic preservative.
- ✓ Contains no controversial preservatives.
- ✓ Effective at pH from 3 to 7.
- ✓ Natural certified cosmetics.
- ✓ Cost-effective.