

Elixi-KON DHA

INCI CAS Dehydroacetic acid 520-45-6

SPECIFICATIONS

Crystalline powder Appearance Odorless Odor Min. 99.0 Assay (%)

GENERAL INFORMATION

Elixi-KON DHA, is a preservative active ingredient widely used in cosmetic and toiletries formulations.

Elixi-KON DHA is highly effective against fungi and yeasts and offers a stronger efficacy many other traditional compared to preservatives.

Elixi-KON DHA is an odorless, colorless to white crystalline powder, almost insoluble in water and moderately soluble in most organic solvents.

The efficacy of Elixi-KON DHA, depends on the pH value of the cosmetic formulations (pH max. 6). The efficiency is increased by reducing the pH value. Only the free organic acid form has a preservative activity.

FORMULATION & RECOMMENDATIONS

Elixi-KON DHA, can be added at room or elevated temperatures and at any time during the manufacturing process. Additionally, it is compatible in all types of formulations: anionic, non-ionic, and cationic.

Recommended use concentration

0.1 – 0.6 % (as preservative active)

Solubility

low solubility in water, soluble in a wide range of other solvents

BENEFITS

- Can be used for ECOCERT/COSMOS formulations
- Easy to handle
- Good efficacy against molds and bacteria
- Stable and effective over a wide pH range (but max. 6) compared to other acids

EFFICACY

Elixi-KON DHA is highly effective against fungi and yeasts, offers higher antifungal efficacy than many other traditional preservatives.

Below is an overview showing the Minimum Inhibitory Concentration (MIC) of Elixi-KON DHA:

Microorganism	MIC
Gram-negative bacteria	
Escherichia coli	1.00 %
Pseudomonas aeruginosa	2.00 %
Gram-positive bacteria	
Staphylococcus aureus	1.00 %
Streptococcus lactis	1.00 %
Fungi	
Aspergillus brasiliensis	0.02 %
Penicillium notatum	0.02 %
Yeast	
Candida albicans	0.02 %
Saccharomyces cerevisiae	0.02 %

APPLICATIONS

Cosmetics

- Skin care
- Sun care
- Make up
- Baby care
 Toiletries • Hair care
- Oral care Wet wipes
- Facial masks

REGULATORY

ECOCERT/COSMOS Allowed NATRUF Allowed

SHELF LIFE

Under proper storage conditions the shelf life is 12 months

