

TECHNICAL DATA SHEET

Elix-KON NaDHA

INCI Sodium Dehydroacetate

CAS 4418-26-2



SPECIFICATIONS

Appearance	White to off-white crystalline powder
Assay (%)	99.0 min.

GENERAL INFORMATION

Elix-KON NaDHA is a preservative active ingredient widely used in cosmetic and toiletries formulations. Elix-KON NaDHA is highly effective against fungi and yeasts and offers stronger efficacy compared to many other conventional preservatives. Its efficacy depends on the pH value of the cosmetic formulations (pH max. 6). The efficiency is increased by lowering the pH value. Only the free organic acid form has a preservative effect. Elix-KON NaDHA is often used for faster incorporation due to its better solubility in aqueous formulations.

FORMULATION AND RECOMMENDATIONS

Elix-KON NaDHA is soluble in water and glycols. Maximum solubility is 33 % in water. A 0.1% concentration in water developed with the corresponding acid will remain in solution at room temperature.

Recommended concentration is 0.2%–0.1% in acid and neutral products; up to 0.2%–0.3% in alkaline formulations.

Elix-KON NaDHA is usually combined with other preservatives to maximize efficacy. The solution is stable up to 120 °C for 1 hour. To enhance solubility a premix is suggested prior to addition in water or glycols.

Recommended use concentration

0.1% – 0.6 % (as preservative active)

Solubility

Soluble in water, propylene glycol and methanol. Insoluble in acetone and benzene.

EFFICACY

Elix-KON NaDHA is highly effective against fungi and yeasts, offers higher antifungal efficacy than many traditional preservatives.

BENEFITS

- Can be used in ECOCERT/COSMOS formulations
- Easy to handle
- Good efficacy against molds and bacteria
- Stable and effective over a wide of pH range compared to other acids

APPLICATIONS

Fragrances, pharmaceuticals and natural extracts**Cosmetics**

- Skin care
- Sun care
- Baby care
- Wet wipes
- Toiletries
- Makeup
- Hair care
- Oral care
- Facial masks

SHELF LIFE

24 months under proper storage conditions

REGULATORY

ECOCERT / COSMOS	Approved
NATRUE	Approved