



Elix-KON NaDHA

INCI Sodium dehydroacetate
CAS 4418-26-2

SPECIFICATIONS

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

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.

The efficacy of the Elix-KON NaDHA 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.

Elix-KON NaDHA can be found in a variety of products including bath, skin care, suntan, sunscreen, wet wipes, facial masks, fragrance, shaving, hair and nail care products, and eye and facial makeup.

FORMULATION & 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 (12 – 16 % concentration) 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.

APPLICATIONS

Fragrances
Pharmaceuticals
Natural extracts

Cosmetics

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

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

SHELF LIFE

Under proper storage conditions the shelf life is 24 months

REGULATORY

ECOCERT/COSMOS Allowed
NATRUE Allowed