



Elix-KON PS

INCI Potassium sorbate
CAS 24634-61-5

SPECIFICATIONS

Appearance White granules
Assay (%) 99 – 101

GENERAL INFORMATION

Elix-KON PS is used in a variety of personal care and cosmetic products as a preservative active ingredient. It is effective against a wide range of microorganisms, including bacteria, fungi, and yeasts, and is often used to help prevent the growth of microorganisms and extend the shelf life of the product.

The preservative activity of Elix-KON PS depends on the final pH value of the cosmetic formulations (pH max. 6).

The efficiency is increased by reducing the pH. Only the free organic acid form acts as a preservative active.

Elix-KON PS is often used to achieve a faster incorporation due to its solubility in aqueous formulations.

BENEFITS

- Effective against a wide range of microorganisms, including bacteria, molds and yeasts.
- Allowed preservative active under the certification bodies NATRUE, COSMOS and ECOCERT.
- Fast incorporation due to its very good solubility in aqueous formulations.

FORMULATION & RECOMMENDATIONS

Elix-KON PS, Potassium sorbate, is highly effective in the acidic pH range below 6.

To achieve a full spectrum efficacy, Elix-KON PS should be combined with other preservative actives such as Elix-KON SB (Sodium benzoate) and/or Elix-KON NaDHA (Sodium dehydroacetate).

Recommended concentration
Typically used at 0.3 % – 0.5 %

Solubility
Freely soluble in water and readily soluble in many other solvents

APPLICATIONS

- Cosmetics**
- Skin care
 - Body care
 - Make up
 - Wet wipes
 - Sun care
 - Oral care

EFFICACY

Below is an overview of the Minimum Inhibitory Concentration (MIC) in ppm of Elix-KON PS at pH 7:

Microorganism	MIC
Gram-negative bacteria	
Escherichia coli	13,32
Salmonella typhimurium	6,65
Pseudomonas fluorescens	6,65
Gram-positive bacteria	
Staphylococcus aureus	53,21
Bacillus cereus	26,60
Mold/Yeast	
Aspergillus niger	51,20
Aspergillus oryzae	25,60
Cladosporium cladosporioides	12,80
Penicillium roquefortii	51,20

REGULATORY

ECOCERT/COSMOS Allowed
NATRUE Allowed

SHELF LIFE

Under proper storage conditions the shelf life is 12 months

