

TECHNICAL DATA SHEET

Elix-KON OC

INCI o-Cymen-5-ol

CAS 3228-02-2



SPECIFICATIONS

Appearance	White to slightly yellow powder
Assay (%)	99 min.
Water (%)	05. max.

GENERAL INFORMATION

Elix-KON OC is a preservative active used in cosmetics and beauty products to prevent harmful microorganisms from developing and to prolong the shelf life of formulas.

Elix-KON OC is also used as a cosmetic ingredient that helps cleansing the skin or preventing odor by destroying or inhibiting the growth of microorganisms.

FORMULATION AND RECOMMENDATIONS

Prior to application, a pre-mix based on Elix-KON OC and a suitable solvent such as Elix-KON PHE, Elix-CARE PDO or various other glycols is recommended. The mixture can be added before or after the emulsification process.

Elix-KON OC is suitable for conditions where higher temperatures (e.g. at 80° C) occur. Higher pH level than 9 should be avoided.

Recommended use concentration

0.1% max as a preservative

Solubility

slightly soluble in water

According to the EU list of preservatives allowed in cosmetic products (Annex V), the maximum concentration allowed for is 0.1%.

EFFICACY

Below is an overview of the Minimum Inhibitory Concentration (MIC) of Elix-KON OC

Microorganism	MIC
Gram-negative bacteria	
Escherichia coli	0.02%
Klebsiella pneumoniae	0.02%
Vibrio parahaemolyticus	0.025%
Salmonella typhimurium	0.02%
Pseudomonas aeruginosa	0.05%
Gram-positive bacteria	
Staphylococcus aureus	0.015%
Mycobacterium H2	0.005%
Bacillus subtilis	0.015%
Bacillus cereus	0.015%
Mold/Yeast	
Aspergillus brasiliensis	0.0075%
Aspergillus oryzae	0,005%
Pullularia pullulans	0.0075%
Cladosporium cladosporioides	0.008%
Chaetomium globosum	0.0075%
Penicillium citrinum	0.01%

BENEFITS

- High stability
- Very good safety profile
- Antioxidant activity
- Low odor and taste
- Low dosage
- No skin/eye irritation

APPLICATIONS

Fragrances

Natural extracts

Cosmetics

- Skin care
- Hair care
- Oral care
- Makeup
- Toiletries
- Baby care
- Sun care

SHELF LIFE

24 months under proper storage conditions