

# **Elixi-KON CHP**

INCI CAS Chlorphenesin 104-29-0

#### **SPECIFICATIONS**

White or pale Appearance cream-colored crystals Min. 99.0 Assay (%)

## **GENERAL INFORMATION**

Elixi-KON CHP, Chlorphenesin, is a broad spectrum preservative ingredient, active against bacteria, fungi and yeasts.

It is used as a polyvalent preservative in many different cosmetic products. Flixi-KON CHP can be used to overcome formulation issues such as viscosity and pH changes, emulsion breakdowns, visible microorganism growth, color changes and unpleasant odor formations.

Elixi-KON CHP, Chlorphenesin, is glycerol in which the hydrogen of one of the primary hydroxy groups is substituted by a 4-chlorophenyl group. It has antifungal and antibacterial properties and is used for treatment of cutaneous infections.

## **FORMULATION & RECOMMENDATION**

Elixi-KON CHP, Chlorphenesin, is soluble in hot water at 65 - 70 °C by stirring, almost insoluble in oils and fats.

To enhance solubility, a premix is suggested prior to addition (15 - 20 % concentration) in glycols such as Elixi-CARE PDO (1,3-propanediol).

Elixi-KON CHP, Chlorphenesin, shows a very good stability in formulations within the pH range of 3.5 - 6.5. Examples of good results even at higher pH values (such as pH 9) can be found in the literature.

#### Recommended use concentration

0.1 - 0.3% (as a preservative)

#### Solubility

Water, insoluble in oils and fats

## **EFFICACY**

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

Microorganism	MIC
Gram-negative bacteria	
Escherichia coli	0.05%
Klebsiella aerogenes	0.05%
Klebsiella pneumoniae	0.05%
Proteus vulgaris	0.05%
Salmonella typhimurium	0.05%
Gram-positive bacteria	
Staphylococcus aureus	0.30%
Streptococcus lactis	0.15%
Corynebacterium xerosis	0.15%
Fungi	
Aspergillus Brasiliensis	0.15%
Penicillium Pinophilum	0.15%
Yeast	
Candida albicans	0.30%
Saccharomyces cerevisiae	0.30%

#### **APPLICATIONS**

### **Fragrances Pharmaceuticals** Natural extracts

#### Cosmetics

- Skin care
- Sun care
  Make up
- Hair care
  Baby care
  Toiletries
- Oral care

#### **BENEFITS**

- Polyvalent and globally accepted preservative active
- Formaldehyde free
- It does not enhance fat oxidation
- It does not denature proteins

### **SHELF LIFE**

Under proper storage conditions the shelf life is 48 months

