

## Hexa-Iso-Extract –10% (Hexa)

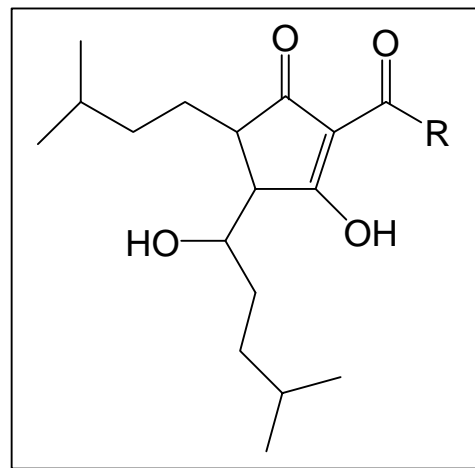
### ❖ Overview

- **Hexa** is a pure aqueous solution of the potassium salts of hexahydroiso- $\alpha$ -acids produced entirely from CO<sub>2</sub> hop extract.
- **Hexa** is one of the most antibacterial hop acids produced from alpha acids. As little as 40 ppm of Hexa can inhibit the growth of gram positive bacteria in clear solutions.
- **Hexa** is produced according to 21 CFR 172.560. Hexa is food grade, kosher and not an antibiotic.

### ❖ Specification

- **Description:** An amber colored, aqueous solution of the potassium salts of hexahydroiso- $\alpha$ -acids.
- **Concentration:** 9.0  $\pm$  0.5% (w/w) of hexahydroiso- $\alpha$ -acids & 1.0  $\pm$  0.5% (w/w) of tetrahydroiso- $\alpha$ -acids by HPLC
- **pH:** 9.5 ( $\pm$  1.0)
- **Density:** 1.017 ( $\pm$  0.005) g/ml
- **Solubility:** Soluble in demineralized water.

Molecular Structure of  
Hexahydro-isoalpha acids



R=isopropyl, isobutyl, sec-butyl

## ❖ Packaging

**Hexa** is regularly available in 20-kg pails (HDPE) or 200-kg drums (PP). Other package sizes (including totes) are available on request.

### □ Storage stability:

**Hexa** has good storage stability. When stored in sealed containers at room temperatures **Hexa** will maintain its integrity for at least 24 months. Ambient storage temperatures between 10-15°C (50-60°F) are ideal.

### □ Safety:

**Hexa** should be handled with due care, especially to prevent contact with the eyes. Any contamination of the skin should be washed off with soap and water. If **Hexa** gets into the eyes, irrigate with excess water until clear and seek immediate medical attention.

For full safety information please see the relevant Steiner material safety data sheet.

### □ Quality:

All Hopsteiner® products are produced in plants accredited to internationally accepted quality standards. **Hexa** is Food Grade and Kosher.

## Analytical methods

### □ Concentration of Hexa-hydroiso- $\alpha$ -acids in Product:

The concentration of hexahydroiso- $\alpha$ -acids can be determined by UV Spectrophotometric analysis or by HPLC using the current ICS

standard according to the modified EBC 7.8 method. The recommended procedures can be obtained from Steiner.

## ❖ Technical Support

We will be pleased to offer help and advice on the full range of Hopsteiner® products:

- Copies of all relevant analytical procedures
- Material Safety Data Sheets (MSDS)
- Assistance with pilot or commercial trials
- Specialist analytical services

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