



## ISOMERIZED HOP EXTRACT 30 %

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### OVERVIEW

**Isomerized Hop Extract 30% (Iso-Extract)** is an aqueous solution of the potassium salts of iso-alpha acids produced from CO<sub>2</sub> hop extract.

### SPECIFICATIONS

<b>Short description</b>	aqueous hop extract
<b>Alpha acids</b>	< 0.6 %
<b>Iso-alpha acids</b>	30.0 ± 2.0 % (w/w) HPLC
<b>Beta acids</b>	< 0.2 %
<b>Hop oils</b>	< 0.1 %
<b>pH</b>	9.0 ± 1.0
<b>Density</b>	ca. 1.07 g/ml (20 °C / 68 °F)
<b>Viscosity</b>	15 - 20 mPas (20 °C / 68 °F)

### PROPERTIES

#### APPEARANCE

Pale amber to yellow in color. Iso-Extract is a clear, homogeneous, aqueous solution.

#### STANDARDIZATION

Iso-Extract is typically supplied as a 30 % w/w solution of the potassium salt of iso-alpha acids; however, 10 or 20 % concentrations are also available on request.

#### QUALITY

All Hopsteiner® products are processed in facilities which fulfill internationally recognized quality standards. A monitoring system for residues is in place.

### PACKAGING

Our products are delivered in their respective recommended standard packaging. Alternatives may be possible upon customer request.

Standard packages of our processing plants in the USA (US) and Germany (DE) are:

- Canister 20 kg (US / DE)
- Jug 10 kg (US)
- Pail 20 kg (US)

## USAGE

### DOSAGE

The dosage of Iso-Extract is highly dependent on the intended use. The quantity to be dosed can vary greatly depending on the matrix and the desired intensity of bitterness.

### CLEANING RECOMMENDATION

Iso-Extract should not be left in dosing lines at low temperatures. Lines and dosing pumps should be flushed with warm, slightly alkaline, demineralized water or ethanol for purposes of cleaning.

### STORAGE

The recommended storage temperature in the original unopened packaging is 5 - 15 °C (41 - 59 °F).

Avoid exposure to sunlight.

Short-term, transport-related temperature deviations do not affect product quality.

### BEST BEFORE DATE

Under the recommended storage conditions, the shelf life from the date of production/ packaging is at least 3 years.

### SAFETY

Ensure good ventilation of the workplace and wear personal protective equipment. Avoid contact with eyes and skin. Do not inhale vapors or dusts. For full safety information, please refer to the relevant Hopsteiner® safety data sheet.

## ANALYTICAL METHODS

International approved methods listed in committees such as ASBC or Analytica-EBC using current standards are applied.

### PRODUCT ANALYTICS

Concentration of bitter substances

- Analytica-EBC 7.9 (HPLC)
- ASBC Hops-9C (HPLC)
- ASBC Hops-9D (HPLC)

## TECHNICAL SUPPORT

We are pleased to offer assistance and advice on:

- safety data sheets
- support for brewing trials on a pilot or commercial scale
- analytical services and information about analytical procedures

Disclaimer: The information provided in this document is believed to be correct and valid. However, Hopsteiner® does not guarantee that the information provided here is complete or accurate and thus assumes no liability for any consequences resulting from its application.

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