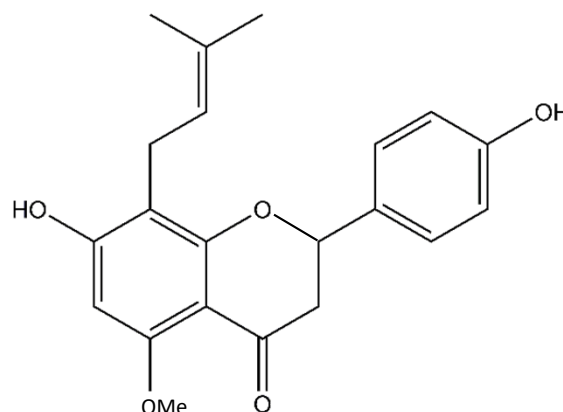


Iso-XanthoFlav

❖ Overview

- **Iso-XanthoFlav** is a product made from natural hops.
- The active ingredient in **Iso-XanthoFlav** is the hop polyphenol isoxanthohumul, which is derived from xanthohumul.
- **Iso-XanthoFlav** can be used as an ingredient in food, cosmetics or pharmaceutical applications.

Molecular structure of isoxanthohumul



❖ Specifications

- Description: Pale yellow colored powder
- Isoxanthohumul*: 65 – 85 % (by HPLC)
- Other hop prenylflavonoids*: < 35 %
- Water: < 5.0 %
- Ethanol: < 0.1 %
- Density: 150 - 300 g / l
- Solubility: Very soluble in ethanol, less soluble in water

* dependent on variety and crop year

❖ Properties

• Appearance

A pale yellow colored powder.

• ORAC & HORAC Test Results

<u>Peroxy Radical Scavenging Capacity</u>	
	μmol Trolox / g
Isoxanthohumol (> 98%)	19073
Quercetin-Dihydrate (90%)	21779*

<u>Hydroxyl Radical Scavenging Capacity</u>	
	μmol Trolox / g
Isoxanthohumol (> 98%)	29600
Quercetin-Dihydrate (90%)	5610*

* Quercetin-Dihydrate (90%) was used as a reference standard.

Source: van Hoyweghen, L., Biendl M. and Heyerick A.: Radical Scavenging Capacity of hop-derived Products, BS Vol. 63 (2010)

• Flavor

Iso-XanthoFlav imparts a mild bitterness.

• Quality

All Hopsteiner® products are processed in facilities which fulfill internationally recognized quality standards. Packaging

Iso-XanthoFlav can be packaged according to customer requirements, e.g. in brown glass bottles.

❖ Product Use

• Dosage

The required dosage of **Iso-XanthoFlav** depends on the field of application.

• Storage

Iso-XanthoFlav should be stored in its original packaging, protected from light, at a temperature below 10°C (50°F).

• Best Before Date

Iso-XanthoFlav is stable for four years from the date it was produced / packaged if stored under the recommended conditions.

• Safety

If **Iso-XanthoFlav** gets into the eyes, flush with copious amounts of water until clear and seek medical attention. For full safety information, please refer to the relevant Hopsteiner® safety data sheet.

❖ Analytical Methods

• Concentration of Isoxanthohumol

Isoxanthohumol can be measured by the following method:

- HPLC method according to Analytica-EBC 7.8 (290nm) using the appropriate isoxanthohumol standard.

❖ Technical Support

We are pleased to offer you support and advice for the entire Hopsteiner® product range:

- Information of all relevant analytical procedures
- Safety Data Sheets (SDS)
- Special analytical services

❖ Remarks

We take great care in the production of **Iso-XanthoFlav** from natural raw materials. However, the use or application of **Iso-XanthoFlav** is the sole responsibility of the purchaser.

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.