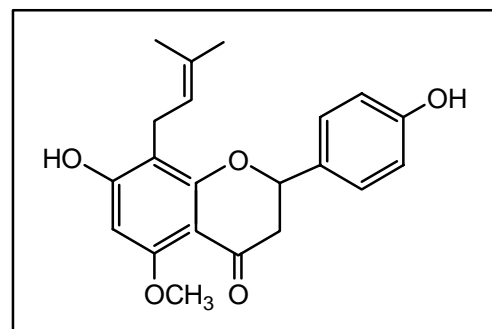


Isoxanthohumol

❖ Overview

- **Isoxanthohumol** is a natural product produced from hops.
- **Isoxanthohumol** is the hop polyphenol produced from xanthohumol.
- **Isoxanthohumol** can be used as an ingredient in food, cosmetics or pharmaceutical applications.

Molecular Structure of Isoxanthohumol



❖ Specification

- **Description:** White colored powder.
- **Isoxanthohumol:** >85%
- **Ethanol, Ethylacetate:** < 0.1%
- **Density:** ~0.5 g/ml
- **Solubility:** Very soluble in ethanol, nearly insoluble in water.

Further information on solubility:
J. Agric. Food Chem. 1999, 2421 – 2428.

❖ Packaging

Isoxanthohumol is packaged in various types of containers depending on custom requirements.

❑ Storage stability:

Isoxanthohumol is stable for two years from the date of production. The product should be stored < 5 °C and be protected from light.

❑ Safety:

If **Isoxanthohumol** comes in contact with the eyes wash off with plenty of water and seek 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. **Isoxanthohumol** is Food Grade and Kosher.

Analytical methods

❑ Concentration of Isoxanthohumol in Product:

The concentration of **Isoxanthohumol** can be determined by UV Spectrophotometric analysis or by HPLC using modified method Analytica-EBC 7.8 with UV detection at 290 nm for isoxanthohumol. 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

❑ Orac Test Results:

Peroxyl Radical Scavenging Capacity

	<u>µmol Trolox/g</u>
Xanthohumol (> 98%)	23447
Isoxanthohumol (> 98%)	19073
*Quercetin-Dihydrate (90%)	21779

Hydroxyl Radical Scavenging Capacity

	<u>µmol Trolox/g</u>
Xanthohumol (> 98%)	72245
Isoxanthohumol (> 98%)	29600
*Quercetin-Dihydrate (90%)	5610

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

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