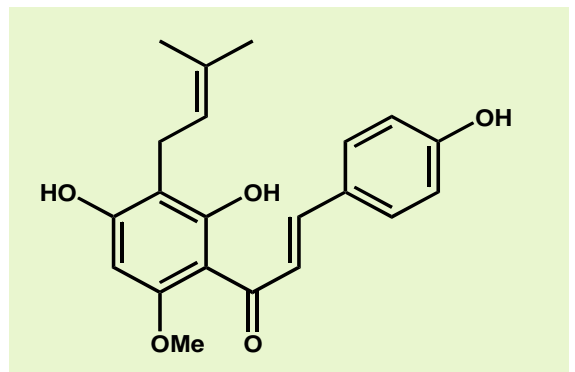


Xantho-Flav

❖ Overview

- **Xantho-Flav** is a natural product produced from hops.
- **Xantho-Flav** is consisting of principally xanthohumol and other prenylated flavonoids originating from hops. Resins and other hop components are almost totally eliminated.
- **Xantho-Flav** can be used as raw material for food production and is suitable for use in the cosmetic or pharmaceutical industry.



Xanthohumol

❖ Specifications

- **Xanthohumol:** 65 – 85 %
- **Ethanol, Ethylacetate:** < 0.5 %
- **Density:** ~ 500 g/l

❖ Properties

❑ Taste

Xantho-Flav has a slightly bitter taste.

❑ Appearance

A yellow powder.

❑ Solubility

Although **Xantho-Flav** is almost totally insoluble in water, it shows very good solubility in ethanol.

❑ Physiological properties

Xantho-Flav contains a high concentration of the prenylated flavonoid xanthohumol. As demonstrated in numerous “in vitro”-tests, xanthohumol shows a wide range of potentially beneficial effects, amongst which is its high degree of anti-oxidative activity.

PDS 26/04 issued 03/2009

Its bioavailability, impact on metabolism and pharmacokinetics have all been examined in animal testing. A dose rate of 100 mg xanthohumol per kg of animal weight showed no toxic effect (*Molecular Nutrition and Food Research, Edition 9/05*).

❑ **Quality**

All Hopsteiner® products are produced in plants accredited to internationally accepted quality standards.

❖ **Packaging**

Xantho-Flav can be packed in various types of containers (i.e. brown glass bottles) to suit customer requirements.

❖ **Product Use**

Xantho-Flav can be used as solid powder or, alternatively, can be dissolved in ethanol.

❑ **Dosage**

The required dosage of **Xantho-Flav** depends on its specific use and method of addition.

❑ **Storage**

Xantho-Flav should be stored cool (< 5°C) and be protected from light in sealed containers.

❑ **Best Before**

Xantho-Flav is stable 2 years from date of production.

❑ **Safety**

Xantho-Flav is classified in GHS category 5. If **Xantho-Flav** gets into the eyes, irrigate thoroughly with water and seek medical attention.

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

❖ **Analytical Methods**

The following method is used when analysing **Xantho-Flav**:

- ❑ Modified HPLC-method EBC 7.8 (UV detection at 370 nm with external calibration by pure xanthohumol).

❖ **Technical Support**

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

- ❑ Material Safety Data Sheets (MSDS)
- ❑ Copies of all relevant analytical procedures
- ❑ Specialist analytical services

❖ **Remark**

We take a great deal of care in the preparation of **Xantho-Flav** from a natural raw material (hops). However, the use or application of **Xantho-Flav** is the sole responsibility of the buyer.

PDS 26/04 issued 03/2009