

## General Specification

### Orris Root CO<sub>2</sub>-se extract

### 3 % Irones, Type No. 008.003

**Raw material:***Iris germanica* - Roots, dried**Production:**

By supercritical fluid extraction with natural carbon dioxide, no solvent residues, no inorganic salts, no heavy metals, no reproducible microorganisms [1]. The extract is standardised to a content of 3 % irones by addition of MCT-oil.

**D/E - ratio:**

100 - 185 kg orris root to 1 kg product.

**Organoleptic description:**

Yellow to brown pasty to liquid extract, sweet balsamic, weak woody, violet-like smell.

**Composition:**

about 55 % MCT-oil (from coconut)  
 about 45 % Orris Root CO<sub>2</sub>-se extract

**Ingredients:**

The CO<sub>2</sub>-extract contains a high content of myristic acid and 2,9 - 3,1 % total irones, mainly consist of cis-alpha-irone and cis-gamma-irone, traces of trans-alpha-irone and beta-irone.

**Declaration:**

In food:  
 flavouring preparation or orris root extract

In cosmetics:  
 INCI-Name: Caprylic/Capric Triglyceride, CAS-No. 73398-61-5, EINECS-No. 277-452-2 and Iris Germanica Root Extract, CAS-No. 85085-39-8, EINECS-No. 285-368-2

**Application:**

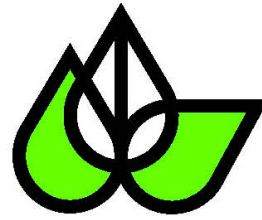
Traditional use:  
 In folk medicine, orris root is used to treat respiratory diseases such as bronchitis, asthma and coughing, and nausea. Furthermore, it is said to help against headaches, circulatory weakness and flatulence. However, there is currently no scientific evidence of its effectiveness in these areas [2].

In food:  
 As flavour, orris root extract can be used in the liqueur industry to prepare fine liqueurs and bitter spirits [2].

In cosmetics:  
 Due to its violet-like odor, the extract is used as a fragrance in soaps, creams, lotions and perfumes [2].

**Handling:**

Warm up 40°C (104°F) and mix before use!  
 The concentrated FLAVEX extracts are the basic ingredients for the product formulation. They are therefore not intended for direct consumption in food, nor for direct application to the skin in



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cosmetics, perfumery and aromatherapy. Keep away from children!

- Stability:** Unopened containers at least 5 years under exclusion of light and following conditions:  
Store in a cool, dry place!
- Transport:** No dangerous good in the sense of the transport regulations.
- REACH - Status:** This product is currently not subject to registration.
- Certification:**
- HALAL certified by HCS (Halal Certification Services)
  - KOSHER certified by KLBD (Beth Din Kashrut Division)
  - Approved by ECOCERT GREENLIFE, conform to the COSMOS Standard
- Conformity:** The product complies with the requirements of Regulation (EC) No. 1334/2008 on flavourings and with the requirements of Regulation (EC) No.1223/2009 on cosmetic products in the currently valid version.
- Literature:**
- [1] P. Manninen, E. Häivälä, S. Sarimo, H. Kallio, Distribution of microbes in supercritical CO<sub>2</sub> extraction of sea buckthorn (Hippophae rhamnoides) oils, Zeitschrift für Lebensmitteluntersuchung und -Forschung / Springer-Verlag (1997) 204: 202-205
- [2] Wolfgang Blascheck u.a. (Hrsg.), HagerROM 2017, Hagers Enzyklopädie der Arzneistoffe und Drogen, Stuttgart: Wissenschaftliche Verlagsgesellschaft Stuttgart, 2017

**Disclaimer:**

This specification has been prepared to the best of our knowledge for customer information, but under exemption of liability, particularly regarding infringement of or prejudice to third party rights by the use of the product. Statements on application summarise literature evidence and have informative character. Statements have not been evaluated by competent authorities and do not refer to finished products. The marketer of a finished product containing a FLAVEX extract as an ingredient is responsible for ensuring that the product claims are lawful and that the applicable laws and regulations of the country in which the product is sold are complied with.