



Hochdruckextraktion mit CO<sub>2</sub>



since 1986  
**FLAVEX**<sup>®</sup>  
Naturextrakte

Version No. 010.002\_04\_S, Date: 28.11.2022

# General Specification

## Angelica Root CO<sub>2</sub>-se extract (organic)

### DE-ÖKO-013, Type No. 010.002

**Raw material:** *Angelica archangelica* - Root, dried from organic farming



**Production:** By supercritical fluid extraction with natural carbon dioxide, no solvent residues, no inorganic salts, no heavy metals, no reproducible microorganisms [1].

**D/E - ratio:** 83 - 125 kg Angelica root to 1 kg product.

**Organoleptic description:** Yellow - brown oil with characteristic odor.

**Composition:** 100 % Angelica Root CO<sub>2</sub>-se extract (organic)

**Ingredients:** The extract contains 20 - 35 ml/100g steam volatile components. It is composed of terpene hydrocarbons, mainly alpha pinene, alpha and beta phellandrene, low volatile macrolides, e.g. 13-tridecanolide, 15-pentadecanolide, etc. and a larger quantity of osthol and small amounts of other coumarin derivatives.

**Limited substances (cosmetic):** According to Annex III Reg. (EC) No. 1223/2009 (cosmetic regulation): Furanocoumarins in sunscreens and tanning products (for values in the extract, see certificate of analysis)

**Declaration:** In food:  
Flavouring preparation or spice extract or angelica root extract

In cosmetics:  
INCI-Name: Angelica Archangelica Root Extract, CAS-No. 84775-41-7, EINECS-No. 283-871-1

**Application:** Traditional use:  
Angelica root (*Angelica Archangelica*) is used in traditional herbal medicines for loss of appetite and gastrointestinal complaints such as flatulence and mild spasms due to its antispasmodic and stimulating effect on gastric juice secretion [2].

In food:  
Angelica root extract can be used to flavour foods, especially liqueurs, or in the confectionery industry [3].

In cosmetics:  
Angelica root extract is mainly used as a fragrance in perfumes and for flavouring toothpaste or mouthwash [4].

**Handling:** For professional users only!

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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 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:** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains alpha-pinene and limonene), 9, III
- REACH - Status:** This product is currently not subject to registration.
- Certification:**
- ORGANIC certified by QC&I (Quality, Certification and Inspection)
  - HALAL certified by HCS (Halal Certification Services)
  - KOSHER certified by KLBD (Beth Din Kashrut Division)
  - COSMOS certified by IONC (International Organic and Natural Cosmetics Corporation), 100 % certified ingredients (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. Possible traces of prohibited substances are unintentional and result from impurities as they may occur in plants and their processing and are technically unavoidable in good manufacturing practice. However, the presence is in compliance with Art. 3 Regulation (EC) No. 1223/2009.

**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] Blumenthal M, Busse WR, Goldberg A, Gruenwald J, Hall T, Riggins CW, Rister., The Complete German Commission E Monographs—Therapeutic Guide to Herbal Medicines., Austin, TX: American Botanical Council; Boston: Integrative Medicine Communication; 1998.

[3] P. N. Ravindran, The Encyclopedia of herbs & spices. Volume 1, Oxfordshire: CABI, 2017

[4] R. Winter, A Consumer's Dictionary of Cosmetic Ingredients, 7th Edition, New York: Three Rivers Press, 2009

**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. This document provides an overview of the product, further product-relevant documents (e.g. IFRA list, allergen list) are available on request.

