



# NATURAL SOURCING

Specialists in Cosmeceutical Ingredients



## ROSEMARY ANTIOXIDANT EXTRACT

25 % Diterpene Phenols, (organic acc. to USDA NOP)

Contains mainly antioxidative components [2][3]

### Raw material:

Rosmarinus officinalis – Leaves (organic acc. To USDA NOP)

### Production:

By supercritical fluid extraction with natural carbon dioxide and a small amount of ethanol as entrainer. No inorganic salts, no heavy metals, no reproducible microorganisms [1]. The CO<sub>2</sub>-extract is standardised with sunflower oil (organic acc. To USDA NOP).

### Extract:

Dark brown. At room temperature, it is a viscous liquid product with characteristic smell and taste. The product can solidify under cool storage or after standing at room temperature. By warming it up to a temperature of 105 degrees F, it returns to its viscous, oily consistency.

### D/E-Ratio:

7,1 – 12,0 kg raw material. Yield 1 kg product.

### Declaration:

INCI-Name: Rosmarinus Officinalis Leaf Extract [CO<sub>2</sub>], CAS-No. 84604-14-8, EINECS-No. 283-291-9 and Helianthus Annuus Seed Oil, , CAS-No. 8001-21-6. EINECS-No. 232-273-9

### Ingredients:

24 - 26 % antioxidative phenolic diterpenes with at least 14 % of carnosolic acid; content of essential oil < 4 %, water < 5 %, alcohol < 4 %, sunflower oil, cuticular waxes, GMO-free tocopherols.

### Application:

Stabilization of fatty oils, carotenoids, essential oils for retarding oxidation; in the food industry (dressings, sausages, snacks, etc.). Clean label declaration as spice extract without registration number, in cosmetic ointments.  
Dosage: 0,02 - 0,1 % in case of saturated fats, 0,1 - 0,2 % in case of polyunsaturated oils.

### Naturalness:

This product is 100 % natural and contains no other additives other than vegetable oil. It conforms to the Codex Alimentarius definition for natural extracts.

### Stability:

Closed pack under cool storage and exclusion of light at least 5 years.

[1] Manninen P., Häivälä E., Sarimo S., Kallio H. : Z. Lebens Unters Forsch A (1997) 204: 202-205

[2] Quirin K. W., Gerard D.: Cosm. Toil. Mauf. Worldw.: 1998, S. 31

[3] Gerard D., Quirin K. W., and Schwarz E.: Food Marketing and Technology October 1995, S. 46-55

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