

## TECHNICAL DATA SHEET

Effective date: 11.2019

### Rosemary Antioxidant CO<sub>2</sub> Extract

#### INFORMATION ON SUBSTANCE / MIXTURE

INCI	Helianthus annuus (Sunflower) seed oil, Rosmarinus officinalis (Rosemary) leaf extract
Botanical name	Rosmarinus officinalis
Manufacturing process	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. The extract is standardized with pure sunflower oil (organic)
Description	Contains mainly antioxidative components.
Part used	Dried leaves
Composition	7 - 10 % Antioxidative reference compounds: phenolic diterpenes, carnosic acid and carnosol calculated as carnosic acid with > 6 % of carnosic acid; steam volatile flavor compounds < 2 %, water < 1 %, ethanol < 0,5 %, sunflower oil (organic), cuticular waxes.
Additives	It contains apart from the sunflower oil (organic) no additives and no other technical adjuncts. The product is 100 % natural
Ingredient list - weight	Helianthus annuus seed oil 60-65% Rosmarinus officinalis leaf extract 35-40%

#### TECHNICAL DATA

##### Physical parameters

Appearance	Viscous liquid
Color	Dark brown
Odor	Characteristic, faint
Solubility	Soluble in oil, insoluble in water.

##### Chemical parameters

Rosmanol	0.05 %
7-Methyl-Rosmanol	0.11 %
Carnosol	0.32 %
Carnosic Acid	8.0%
12-O-Methyl-Carnosic Acid	1.1 %
Betulinic Acid	1.0 %

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Ursolic Acid	0.17 %
Oleanolic Acid	0.09 %
Total volatile flavor compounds	1.2 %
Total content of Borneol, Bornyl acetate, Camphor, 1,8-Cineol, Verbenone	0.76 %
Content of water	0.38 %
Residual content of ethanol	0.31 %

### TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in closed containers, keep dry and avoid humidity. The product can lose its ability to flow during cool storage or a longer standing at room temperature. However warming it up to 40°C it gets back its oily consistency.
Shelf Life	48 months, in closed packaging and the recommended conditions.
Custom tariff	-

### LEGISLATION

Certification	-
Kosher Status	Certified by London Beth Din Kashrut Division (KLBD) at manufacturer
Halal Status	Certified by Halal Certification Services (HCS) at manufacturer
EINECS	232-273-9 / 283-291-9
CAS	8001-21-6 / 84604-14-8

### DISCLAIMER

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