

## TECHNICAL DATA SHEET

Effective date: 03.2020

### Rosehip CO<sub>2</sub> Extract, Organic

#### INFORMATION ON SUBSTANCE / MIXTURE

INCI	Rosa canina (Rosehip) fruit extract, Rosmarinus officinalis (Rosemary) leaf extract
Botanical name	Rosa canina
Manufacturing process	By supercritical fluid extraction with natural carbon dioxide
Description	Contains all CO <sub>2</sub> -soluble lipophilic components stabilized with rosemary antioxidant (organic), it is 100 % natural and contains apart from the rosemary antioxidant (organic) no additives and no technical adjuncts.
Part used	Fruit, dried, from organic farming
Components	Fatty oil with high content of unsaturated fatty acids including 40 - 60 % linoleic acid (C18:2, omega-6), 20 - 40 % alpha-linolenic acid (C18:3, omega-3), 14 - 20 % oleic acid (C18:1, omega-9), small amounts of stearic and palmitic acid, sterols, tocopherols and carotenoids.

#### TECHNICAL DATA

##### Physical parameters

Appearance	Clear to light turbid liquid
Color	Reddish
Odor	Characteristic
Relative density at 20°C	NA
Refractive index at 20°C	1.470 – 1.490
Optical rotation at 20°C	NA
Flash point	NA
Solubility	Soluble in oil, insoluble in water

#### COMPOSITION

Rosa canina fruit extract	>99%
Rosmarinus officinalis leaf extract	≤ 0.1%

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#### Analytical parameters

Fatty acid composition:	
Palmitic Acid C16:0	2,5 - 5,5 %
Palmitoleic Acid C16:1 w7	n.s. %
Stearic Acid C18:0	1,0 - 3,5 %
Oleic Acid C18:1 w9	14 - 20 %
Vaccenic Acid C18:1 w7	n.s. %
Linoleic Acid C18:2 w6	40 - 60 %
alpha Linolenic acid C18:3 w3	20 - 40 %
Arachidic Acid C20:0	n.s. %
Saturated fatty acids	n.s. %
Monounsaturated fatty acids	n.s. %
Polyunsaturated fatty acids	n.s. %
Peroxide Value	< 15 meq O <sub>2</sub> /kg
Acid value	< 15 mg KOH/g
Saponification value	180 - 195 mg KOH/g

#### TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Ambient temperature, protected from light, moisture and oxygen
Shelf Life	36 months under good storage conditions

#### LEGISLATION

Certification	100% of the total ingredients are from Organic Farming. Certified as 100% organic by Ecocert Greenlife according to COSMOS-standard.
Halal	Halal Certified by Certification Services (HCS) at manufacturer
Kosher	Certified by London Beth Din Kashrut Division (KLBD) at manufacturer
EINECS	283-652-0 ; 283-291-9
CAS	84696-47-9 ; 84604-14-8

#### DISCLAIMER

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