



Healing Body, Mind, and Spirit  
with Pure Essential Oils Since 1995

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**Certificate of Analysis:** Rosehip Fruit CO<sub>2</sub>, *Rosa canina*, organically grown in South Africa, extracted in Germany.

Batch No: GE-051321

Lab No: 19669

Type No: 046.005 / DE-ÖKO-013

Raw material: *Rosa canina*, organically grown and dried fruit from South Africa

Country of origin of product: Germany

D/E - ratio: 18–22 kg raw material yields 1 kg product

Product contains: Rosemary Antioxidant Extract (Organic)

Production: November 2015

Retest: November 2017

Storage: Store in a cool, dry place.

#### Sensory Check

Feature	Reference	Result
Appearance	Clear to light turbid, dark red oil	meets

#### Analytical Check

Feature	Method	Limits	Value/Unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.02, GCFID	2,5 - 5,5	3,1 %
Palmitoleic Acid C16:1 w7	21.156.02, GCFID	n.s.	0,16 %
Stearic Acid C18:0	21.156.02, GCFID	1,0 - 3,5	1,5 %
Oleic Acid C18:1 w9	21.156.02, GCFID	14 - 20	15,3 %
Vaccenic Acid C18:1 w7	21.156.02, GCFID	n.s.	0,40 %
Linoleic Acid C18:2 w6	21.156.02, GCFID	40 - 60 4	4,1 %
alpha Linolenic acid C18:3 w3	21.156.02, GCFID	20 - 40	34,9 %
Arachidic Acid C20:0	21.156.02, GCFID	n.s.	0,45 %
Fat numbers:			
Peroxide Value	21.015.02, DGF, Wheeler	< 10	3,3 meq O <sub>2</sub> /kg
Acid value	21.016.02, DGF	< 15	3,3 mg KOH/g
Saponification value	21.017.01, DGF	180 - 195	185,6 mg KOH/g
Ester value	= SV - AV	165 - 185	182,3 mg KOH/g
Unsaponifiables	21.020.02, DGF	< 7	3,0 %
Sum of Sterols (calc. as Sitosterol)	21.132.02, GCFID	> 0,5	0,74 %
Sum of Carotenoids (calc. as β-Carotene)	21.010.04, UV-VIS	0,10 - 0,18	0,15 %
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	0,13 %
Content of water	Karl Fischer method	< 0,5	0,15 %
Refractive index (20°C)	Abbe-Refractometer	1,470 - 1,490	1,4805

n.s. = not specified

n.d. = not detected

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The data in this report of analysis have been determined carefully and to the best of our knowledge. Depending on transport and storage conditions the indicated data can be subject to certain changes which are outside of our influence. Hence the report has not the meaning of a guaranty in the legal sense and does not dispense the customer from making his own quality control before using the product.

The product meets specifications no. 16.197.02/66.296.02; date of analysis: 2015.11.10

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