



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

www.naturesgift.com

**Certificate of Analysis:** Rosehip Seed CO<sub>2</sub> Total, *Rosa canina*, seeds organically grown in Bulgaria, CO<sub>2</sub> extracted in Germany.

Batch No: GE-471111

Lab No: 22699

Type No: 046.004 / DE-ÖKO-013

D/E - ratio: 13–15 kg raw material which yields 1 kg product

Product contains: 0.1% Organic Rosemary Antioxidant Extract

Production: April 2017

Retest: April 2019

Storage: Store in a cool, dry place under inert gas.

#### Sensory Check

Feature	Reference	Result
Appearance	Orange-light reddish, clear oil	meets

#### Analytical Check

Feature	Method	Limits	Value Unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.03, GCFID	2 - 6	4,1 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,13 %
Stearic Acid C18:0	21.156.03, GCFID	< 5	2,3 %
Oleic Acid C18:1 w9	21.156.03, GCFID	12 - 22	15,4 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,96 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	41 - 59	54,6 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	20 - 35	21,8 %
Arachidic Acid C	20:0 21.156.03, GCFID	n.s.	0,82 %
Sum of Carotenoids (calc. as $\beta$ -Carotene)	21.008.05, Spectrometer	0,01 - 0,02	0,014 %
Fat numbers:			
Peroxide Value	21.015.03, DGF, Wheeler	< 12	2,8 meq O <sub>2</sub> /kg
Acid value	21.016.03, DGF	1 - 15	3,6 mg KOH/g
Saponification value	21.017.02, DGF	180 - 210	92 mg KOH/g
Ester value	= SV - AV	170 - 200	188 mg KOH/g
Unsaponifiables	21.020.03, DGF	< 3	2,3 %
Content of water	21.220.01, Karl Fischer method	n.s.	0,16 %
Sum of Sterols (calc. as Sitosterol)	21.132.02, GCFID	n.s.	0,51 %
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	0,09 %
Refractive index (20°C)	21.080.03, Abbe-Refractionmeter	1,475 - 1,485	1,4794
Density (20°C)	21.024.03, Pycnometer	0,910 - 0,930	0,9242 g/cm <sup>3</sup>
Benzo(a)pyrene	GCMS	< 0,002	meets ppm
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	GCMS	< 0,010	meets ppm

n.s. = not specified / n.d. = not detected

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The product meets specifications no. 16.275.02/66.267.04; date of analysis: 2017.04.26

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.

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