

Nature's Gift®

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

316 Old Hickory Blvd East, Madison, TN 37115
Tel (615)612-4270 fax (615)860-9171
sold@naturesgift.com

www.naturesgift.com

Certificate of Analysis Pomegranate Seed CO₂-to (organic) Batch #DE-59297

production: February 2022 retest: February 2024
raw material: *Punica granatum* - Seed, dried, from organic farming

country of origin of raw material: Turkey
country of origin of product: Germany
D/E - ratio: 6,0 - 10,0 kg raw material yield 1 kg product.
Product contains: 0,1 % Rosemary Antioxidant Extract (organic)

Sensory Check

feature	reference	result
Appearance:	Yellow oil, with viscous consistence at room temperature	meets

Analytical Check

feature	method	limits	value	unit
Fatty acid composition:				
Palmitic Acid C16:0	21.156.03, GCFID	n.s.	2,7	%
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,02	%
Stearic Acid C18:0	21.156.03, GCFID	n.s.	1,9	%
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	4,6	%
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,59	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	n.s.	5,0	%
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	0,06	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,42	%
Punicic Acid C18:3 w5	21.156.03, GCFID	> 60	62,4	%
CLnA Isomers	21.156.03, GCFID	n.s.	22,4	%
Total fat	DGF method, C-VI 10b	n.s.	100,0	%
Saturated fatty acids	DGF method, C-VI 10b	n.s.	2,4	%
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	5,2	%
Polysaturated fatty acids	DGF method, C-VI 10b	n.s.	89,8	%
Fat numbers:				
Peroxide Value	21.015.03, DGF, Wheeler	< 10	2,9	meq O ₂ /kg
Acid value	21.016.03, DGF	< 10	2,6	mg KOH/g

n.s. = not specified

n.d. = not detected

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feature	method	limits	value unit
Saponification value	21.017.02, DGF	n.s.	198,0 mg KOH/g
Ester value	= SV - AV	n.s.	195 mg KOH/g
Unsaponifiables	21.020.03, DGF	n.s.	1,9 %
Content of water	21.220.01, Karl Fischer method	< 0,5	0,12 %
aw-value	LabSwift aw-value Measurement	< 0,7	0,598 (22,8 °C)
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,29 %
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	n.s.	1,0 %
Squalene	21.180.02, GCFID	n.s.	0,12 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,513 - 1,525	1,5219
Density (20°C)	21.024.03, Pycnometer	0,930 - 0,950	0,9414 g/cm ³

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n.d. = not detected

The product meets the current version of the analytical (170.001_03_AS) and of the general (170.001_08_S) specification.

date of analysis: 2022.02.16

This computerized CoA has digital signature validated by Nature's Gift.

Digitally signed by
Anja Cawellius
Reason: FLAVEX
Naturextrakte GmbH,
Quality control
Date: 2022.02.16 17:

21:42+01'00'

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.