



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

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Certificate of Analysis: Pomegranate Seed Essential Oil, *Punica granatum*, organic seeds from Turkey, CO₂ extracted in Germany.

Batch no. 541111, lab no. 16665

D/E - ratio: 8,5 - 12,5 kg raw material yield 1 kg product

Analytical Check

FEATURE	METHOD	LIMITS	VALUE UNIT
<i>Fatty acid composition:</i>			
Palmitic Acid	C16:0 21.156.02, GCFID	n.s.	3,0 %
Palmitoleic Acid	C16:1 w7 21.156.02, GCFID	n.s.	0,04 %
Stearic Acid	C18:0 21.156.02, GCFID	n.s.	2,1 %
Oleic Acid	C18:1 w9 21.156.02, GCFID	n.s.	4,9 %
Vaccenic Acid	C18:1 w7 21.156.02, GCFID	n.s.	0,45 %
Linoleic Acid	C18:2 w6 21.156.02, GCFID	n.s.	5,8 %
alpha Linolenic acid	C18:3 w3 21.156.02, GCFID	n.s.	0,05 %
Arachidic Acid	C20:0 21.156.02, GCFID	n.s.	0,47 %
Punicic Acid	C18:3 w5 21.156.02, GCFID	> 60	60,6 %
CLnA Isomers	21.156.02, GCFID	n.s.	22,8 %
<i>Fat numbers:</i>			
Peroxide Value	21.015.02, DGF, Wheeler	< 10	2,3 meq O ₂ /kg
Acid value	21.016.02, DGF	< 10	5,8 mg KOH/g
Saponification value	21.017.01, DGF	n.s.	197 mg KOH/g
Ester value	= SV - AV	n.s.	191 mg KOH/g
Unsaponifiables	21.020.02, DGF	n.s.	2,6 %
Content of water	Karl Fischer method	< 0,5	0,08 %
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	0,18 %
Sum of Sterols (calc. as Sitosterol)	21.132.02, GCFID	n.s.	0,75 %
Squalene	21.157.01, GCFID	n.s.	0,02 %
Refractive index (20°C)	Abbe-Refractometer	1,513 - 1,525	1,5222
Density (20°C)	21.024.02, Pycnometer	0,930 - 0,950	0,9407 g/cm ³

n.s. = not specified; *n.d.* = not detected