

CERTIFICATE OF ANALYSIS

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Order Data

Customer: Nektarios Papazoloudes P.C. - Nepachem
Art.-No.: P0128416
Description: Tea Tree Oil nat. Ph.Eur.
Yr. Order No.: NO 35/250724
F+L Order No.: 22411518 Pos.: 3
Batch/Lot-No.: 1413160
Production date: 09.08.2024
Date of analysis: 09.08.2024
Best before: 08.08.2027
Characters: Clear, mobile, colourless or pale yellow liquid; characteristic odour.

Analytical Data	Method	Target Value	Measured Value
Identification:			
GC	2.2.28_FL WAX 35	must comply	complies
Purity:			
Relative density (d ₂₀ /20)	2.2.5	0.885 - 0.906	0.8970
Refractive index (n _D 20)	2.2.6	1.475 - 1.482	1.4774
Optical rotation (α ₂₀)	2.2.7	+5 - +15 °	+9.5 °
Fatty oils and resinified essential oils	2.8.7	must comply	complies
Chromatographic profile:			
alpha-Pinene	2.2.28_FL WAX 35	1.0 - 6.0 %	2.4 %
Sabinene	2.2.28_FL WAX 35	≤ 3.5 %	0.1 %
alpha-Terpinene	2.2.28_FL WAX 35	5.0 - 13.0 %	9.6 %
Limonene	2.2.28_FL WAX 35	0.5 - 4.0 %	0.9 %
1,8-Cineole	2.2.28_FL WAX 35	≤ 15.0 %	1.4 %
gamma-Terpinene	2.2.28_FL WAX 35	10.0 - 28.0 %	20.8 %
para-Cymene	2.2.28_FL WAX 35	0.5 - 12.0 %	2.8 %
Terpinolene	2.2.28_FL WAX 35	1.5 - 5.0 %	3.5 %
Terpinen-4-ol	2.2.28_FL WAX 35	≥ 30.0 %	43.3 %
Aromadendrene	2.2.28_FL WAX 35	≤ 7.0 %	1.0 %
alpha-Terpineol	2.2.28_FL WAX 35	1.5 - 8.0 %	2.8 %
Additional test F+L chirality:			
(-)-alpha-Pinene	2.2.28_FL Chiral	≤ 10.0 %	6.2 %
(+)-alpha-Pinene	2.2.28_FL Chiral	≥ 90.0 %	93.8 %
(-)-Terpinen-4-ol	2.2.28_FL Chiral	30.0 - 31.75 %	31.29 %
(+)-Terpinen-4-ol	2.2.28_FL Chiral	68.25 - 70.0 %	68.71 %
(-)-alpha-Terpineol	2.2.28_FL Chiral	24.0 - 26.5 %	25.0 %
(+)-alpha-Terpineol	2.2.28_FL Chiral	73.5 - 76.0 %	75.0 %

This product complies in all points with the above-mentioned monograph.

Henstedt-Ulzburg, 19.08.2024

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