

CERTIFICATE OF ANALYSIS

Order Data

Customer: Nektarios Papazoloudes P.C. - Nepachem
 Art.-No.: P0128416
 Description: Tea Tree Oil nat. Ph.Eur.
 Yr. Order No.: 32/041023
 F+L Order No.: 22313933 Pos.: 5
 Batch/Lot-No.: 1372459
 Production date: 09.10.2023
 Date of analysis: 10.10.2023
 Best before: 08.10.2026

Analytical Data	Method	Target Value	Measured Value
Identification:			
GC	Method Ph.Eur.	must comply	complies
Purity:			
Relative density (d20/20)	2.2.5	0.885 - 0.906	0.8960
Refractive index (nD20)	2.2.6	1.475 - 1.482	1.4774
Optical rotation (α20)	2.2.7	+5 - +15 °	+9.6 °
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 %	2.5 %
Sabinene	2.2.28_FL WAX 35	≤ 3.5 %	0.1 %
alpha-Terpinene	2.2.28_FL WAX 35	5.0 - 13.0 %	9.9 %
Limonene	2.2.28_FL WAX 35	0.5 - 4.0 %	0.9 %
1,8-Cineole	2.2.28_FL WAX 35	≤ 15.0 %	2.3 %
gamma-Terpinene	2.2.28_FL WAX 35	10.0 - 28.0 %	21.2 %
para-Cymene	2.2.28_FL WAX 35	0.5 - 12.0 %	2.2 %
Terpinolene	2.2.28_FL WAX 35	1.5 - 5.0 %	3.5 %
Terpinen-4-ol	2.2.28_FL WAX 35	≥ 30.0 %	41.5 %
Aromadendrene	2.2.28_FL WAX 35	≤ 7.0 %	1.1 %
alpha-Terpineol	2.2.28_FL WAX 35	1.5 - 8.0 %	2.9 %
Additional test F+L chirality:			
(-)-alpha-Pinene	2.2.28_FL Chiral	≤ 10.0 %	9.2 %
(+)-alpha-Pinene	2.2.28_FL Chiral	≥ 90.0 %	90.8 %
(-)-Terpinen-4-ol	2.2.28_FL Chiral	30.0 - 31.75 %	31.09 %
(+)-Terpinen-4-ol	2.2.28_FL Chiral	68.25 - 70.0 %	68.91 %
(-)-alpha-Terpineol	2.2.28_FL Chiral	24.0 - 26.5 %	24.5 %
(+)-alpha-Terpineol	2.2.28_FL Chiral	73.5 - 76.0 %	75.5 %

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