

IDENTIFIED COMPOUNDS

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
Tricyclene	3.16	913	0.01	0.01	922	0.76	Monoterpene
α -Thujene	3.25	918	0.37	0.52	948	0.87	Monoterpene
α -Pinene	3.36	924	2.05	1.88	941	0.84	Monoterpene
Camphene	3.64	942	0.09	0.08	990	1.04	Monoterpene
Sabinene	4.08	968	1.68	1.96	1051	1.46	Monoterpene
β -Pinene	4.16	973	12.16	12.20	1037	1.35	Monoterpene
Myrcene	4.42	989	1.48	1.44	1110	1.93	Monoterpene
Octen-3-ol	4.50	993	0.01	0.02	1413	5.95	Aliphatic alcohol
α -Phellandrene	4.68*	1004	0.04	0.05	1102	1.87	Monoterpene
Δ 3-Carene	4.68*	1004	[0.04]	tr	1086	1.74	Monoterpene
Octanal	4.81	1011	0.05	0.04	1227	3.31	Aliphatic aldehyde
α -Terpinene	4.87	1015	0.13	0.22	1117	2.01	Monoterpene
Limonene	5.20*	1033	69.30	67.17	1145	2.33	Monoterpene
para-Cymene	5.20*	1033	[69.30]	1.44	1203	2.99	Monoterpene
1,8-Cineole	5.20*	1033	[69.30]	0.65	1146	2.35	Monoterp. ether
<i>cis</i> - β -Ocimene	5.29	1038	0.04	7.09	1185	2.80*	Monoterpene
<i>trans</i> - β -Ocimene	5.47	1048	0.09	0.09	1197	2.93	Monoterpene
γ -Terpinene	5.68	1059	7.25	[7.09]	1185	2.80*	Monoterpene
<i>cis</i> -Sabinene hydrate	6.00	1076	0.03	0.02	1401	5.77	Monoterp. alcohol
Terpinolene	6.12	1083	0.27	0.23	1219	3.20	Monoterpene
Linalool	6.64	1106	0.10	0.08	1485	7.26	Monoterp. alcohol
Nonanal	6.70	1109	0.04	0.03	1334	4.80	Aliphatic aldehyde
<i>cis</i> -Limonene oxide	7.24	1129	0.13	0.11	1367	5.27	Monoterp. ether
<i>trans</i> -Limonene oxide	7.35	1133	0.09	0.08	1379	5.46	Monoterp. ether
Citronellal	7.86	1152	0.03	0.03	1429	6.23	Monoterp. aldehyde
Terpinen-4-ol	8.67	1183	0.03	0.25	1528	8.17*	Monoterp. alcohol
α -Terpineol	9.34	1203	0.11	0.11	1619	10.86	Monoterp. alcohol
Decanal	9.65	1210	0.02	0.01	1435	6.34	Aliphatic aldehyde
Nerol	10.51	1229	0.02	0.02	1723	15.35	Monoterp. alcohol
Neral	10.99	1240	0.85	0.80	1592	10.06	Monoterp. aldehyde
Geraniol	11.81	1259	0.02	0.03	1774	18.22	Monoterp. alcohol
Geranial	12.50	1273	1.43	1.40	1645	11.90	Monoterp. aldehyde
Citronellyl acetate	17.00	1349	0.01	0.01	1603	10.39	Monoterp. ester
Neryl acetate	17.63	1359	0.26	0.21	1654	12.31	Monoterp. ester
β -Elemene	18.64	1374	0.01	[0.25]	1528	8.17*	Sesquiterpene
Geranyl acetate	19.11	1382	0.27	0.25	1685	13.64	Monoterp. ester
β -Caryophyllene	20.24	1398	0.14	0.07	1525	8.05	Sesquiterpene
<i>trans</i> - α -Bergamotene	21.82	1417	0.24	[0.25]	1528	8.17*	Sesquiterpene
α -Humulene	23.00	1432	0.01	0.01	1587	9.89	Sesquiterpene
β -Bisabolene	28.46	1497	0.37	0.38	1658	12.51	Sesquiterpene
Caryophyllene oxide	33.50	1566	0.03	0.02	1847	22.50	Sesquiterp. ether

Spathulenol	33.70	1569	0.03	0.03	2022	33.65	Sesquiterp. alcohol
α -Bisabolol	39.38	1685	0.02	0.02	2137	38.14	Sesquiterp. alcohol
Total identified	99.31%		99.06%				

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

Note: no correction factor was applied

OTHER DATA

Physical aspect : Yellow liquid

Refractive index : 1.4735 ± 0.0003 (20 °C)

CONCLUSION

Method : PC-PA-001-15E06, "Analysis of the composition of a liquid essential oil by GC-FID" (in French).

Analyst : Sylvain Mercier, M. Sc., chimiste

Analysis date : 2018-10-02

No adulterant, contaminant or diluent were detected using this method.

16J20-TOB35-1-DM_BP5



