

IDENTIFIED COMPOUNDS

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
Ethanol	0.33	497	0.07	0.07	793	0.51	Aliphatic alcohol
<i>cis</i> -Hex-3-en-1-ol	2.49	864	0.04	0.04	1314	4.52	Aliphatic alcohol
α -Thujene	3.26	918	0.89	1.10	948	0.87	Monoterpene
α -Pinene	3.36	925	2.42	2.22	941	0.84	Monoterpene
Camphene	3.64*	942	0.01	tr	1007	1.11	Monoterpene
α -Fenchene	3.64*	942	[0.01]	0.01	990	1.04	Monoterpene
Sabinene	4.07	968	0.46	0.45	1050	1.45	Monoterpene
β -Pinene	4.13	972	0.72	0.70	1034	1.32	Monoterpene
Myrcene	4.42	989	0.73	0.69	1110	1.93	Monoterpene
α -Phellandrene	4.69	1004	0.45	0.41	1102	1.86	Monoterpene
α -Terpinene	4.90	1016	8.57	8.60	1120	2.04	Monoterpene
<i>para</i> -Cymene	5.08	1026	3.47	3.58	1203	3.00*	Monoterpene
Limonene	5.11	1028	0.81	0.67	1135	2.22	Monoterpene
β -Phellandrene	5.14	1030	0.63	3.53	1140	2.27*	Monoterpene
1,8-Cineole	5.17	1031	2.67	[3.53]	1140	2.27*	Monoterp. ether
<i>cis</i> - β -Ocimene	5.29	1038	0.01	18.53	1187	2.83*	Monoterpene
<i>trans</i> - β -Ocimene	5.47	1048	0.01	[3.58]	1203	3.00*	Monoterpene
γ -Terpinene	5.70	1061	18.51	[18.53]	1187	2.83*	Monoterpene
<i>cis</i> -Sabinene hydrate	6.00	1076	0.10	0.10	1401	5.77	Monoterp. alcohol
Terpinolene	6.14	1084	3.18	3.25	1220	3.21	Monoterpene
<i>para</i> -Cymenene	6.34	1095	0.05	0.04	1363	5.22	Monoterpene
<i>trans</i> -Sabinene hydrate	6.63*	1106	0.20	0.02	1504	7.62	Monoterp. alcohol
Linalool	6.63*	1106	[0.20]	0.39	1485	7.27*	Monoterp. alcohol
<i>cis</i> - <i>para</i> -Menth-2-en-1-ol	7.15	1125	0.29	[0.39]	1485	7.27*	Monoterp. alcohol
<i>cis</i> - <i>para</i> -Mentha-2,8-dien-1-ol	7.67	1145	0.07	0.05	1596	10.18	Monoterp. alcohol
<i>trans</i> - <i>para</i> -Menth-2-en-1-ol	7.72	1147	0.18	0.14	1553	8.91	Monoterp. alcohol
<i>cis</i> - β -Terpineol	8.25	1167	0.05	0.08	1572	9.46	Monoterp. alcohol
Terpinen-4-ol	8.90	1191	41.73	44.01	1532	8.24*	Monoterp. alcohol
α -Terpineol	9.42	1205	3.17	3.58	1621	10.92*	Monoterp. alcohol
<i>trans</i> -Piperitol	9.89	1215	0.17	0.15	1662	12.64	Monoterp. alcohol
Nerol	10.53	1230	0.03	0.02	1724	15.38	Monoterp. alcohol
Piperitone	11.60	1254	0.05	[3.58]	1621	10.92*	Monoterp. ketone
α -Cubebene	15.72	1330	0.06	0.06	1418	6.01	Sesquiterpene
α -Terpinyl acetate	16.24	1338	0.15	[3.58]	1621	10.92*	Monoterp. ester
α -Copaene	17.41	1355	0.20	0.12	1436	6.35	Sesquiterpene
β -Bourbonene	17.56	1358	0.13	0.18	1472	7.03	Sesquiterpene
β -Elemene	18.64	1374	0.04	[44.01]	1532	8.24*	Sesquiterpene
α -Gurjunene	19.35	1385	0.30	0.25	1463	6.86	Sesquiterpene
β -Caryophyllene	20.26	1398	0.36	[44.01]	1532	8.24*	Sesquiterpene
Methyleugenol	21.19	1410	0.06	0.06	1942	29.04	Phenylpropanoid

Aromadendrene	21.64	1415	0.90	[44.01]	1532	8.24*	Sesquiterpene
<i>trans</i> - α -Bergamotene	21.79	1417	0.11	[44.01]	1532	8.24*	Sesquiterpene
Seychellene	22.31	1423	0.12	0.27	1550	8.81*	Sesquiterpene
<i>cis</i> -Cadina-1(6),4-diene	22.63	1427	0.11	[0.27]	1550	8.81*	Sesquiterpene
α -Humulene	23.02	1432	0.08	0.06	1589	9.97	Sesquiterpene
allo-Aromadendrene	23.28	1435	0.51	0.55	1562	9.14	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	24.69	1452	0.28	0.29	1582	9.77	Sesquiterpene
α -Amorphene	26.06*	1469	1.06	0.35	1618	10.81	Sesquiterpene
Viridiflorene	26.06*	1469	[1.06]	0.07	1610	10.59	Sesquiterpene
β -Selinene	26.06*	1469	[1.06]	0.22	1627	11.11	Sesquiterpene
Bicyclgermacrene	26.48*	1473	0.89	0.60	1643	11.79	Sesquiterpene
α -Selinene	26.48*	1473	[0.89]	0.09	1636	11.49	Sesquiterpene
α -Muurolene	27.24	1482	0.15	0.26	1645	11.92	Sesquiterpene
δ -Cadinene	28.97	1504	1.20	1.08	1674	13.17	Sesquiterpene
Zonarene	29.14	1506	0.22	0.19	1668	12.90	Sesquiterpene
<i>trans</i> -Calamenene	29.32	1509	0.12	0.07	1736	15.97	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	30.07	1519	0.19	0.15	1692	13.98	Sesquiterpene
α -Elemol	32.59	1553	0.06	0.05	2004	32.59	Sesquiterp. alcohol
Spathulenol	33.71	1569	0.10	0.10	2022	33.68	Sesquiterp. alcohol
Globulol	34.08	1574	0.22	0.19	1970	30.62	Sesquiterp. alcohol
Viridiflorol	34.58	1581	0.13	0.11	1978	31.15	Sesquiterp. alcohol
Guaiol	35.40	1592	0.05	0.06	2013	33.18	Sesquiterp. alcohol
1,10-diepi-Cubenol	36.40	1614	0.15	0.21	1952	29.59*	Sesquiterp. alcohol
1-epi-Cubenol	36.86	1626	0.16	[0.21]	1952	29.59*	Sesquiterp. alcohol
τ -Muurolol	37.45	1640	0.01	0.02	2096	36.74	Sesquiterp. alcohol
α -Muurolol	37.57	1643	0.03	0.04	2104	37.03	Sesquiterp. alcohol
Total identified			97.89%	98.13%			

*: 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 : Clear liquid

Refractive index : 1.4775 \pm 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.

