

Table S1. Standards and chemicals used for GC-MS

Standard	Specification	Brand
(-)-Menthol	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
(-)-( $\alpha$ )-Pinene	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
(-)- $\beta$ -Pinene	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
(+)-carvone	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
(R)-(+)-Limonene	Analytical standard	Fluka, Buchs, Switzerland
(Z)- $\beta$ -Damascenone	GC-MS grade	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
6-Methyl-5-hepten-2-one	99%	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
Anethole	GC grade	Fluka, Buchs, Switzerland
Benzaldehyde	$\geq 99\%$	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
Camphene	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Carvacrol	$> 97\%$	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Carvone	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Decanal <n>	Analytical standard	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
DL-camphor	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
DL- $\alpha$ -Pinene	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Estragole	98%	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
Ethanol	Absolute	Merck KGaA, Darmstadt, Germany
Eucalyptol	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Farnesene	Mixture of isomers	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
Fenchone	GC grade	Fluka, Buchs, Switzerland
Hexanal	98%	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
Isoborneol	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
iso-Menthol	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Linalool	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Menthone	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Nerol	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Ocimene	Isomers mix, $\geq 90\%$ , stabilized	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
Palmitic acid	99%	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
p-Cymene	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
Squalene	98%	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
Terpinen-4-ol	94%	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
trans- $\beta$ -Ionone	GC-MS grade	Sigma-Aldrich Chemie GmbH, Taufkirchen, Germany
$\alpha$ -Terpineol	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
$\beta$ -Caryophyllene	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
$\beta$ -Myrcene	$\geq 90\%$	Carl Roth GmbH + Co. KG, Karlsruhe, Germany
$\gamma$ -Terpinene	GC grade	Carl Roth GmbH + Co. KG, Karlsruhe, Germany

Table S2. Relative peak areas of the compounds obtained by hydrodistillation and SPDE

Compound	Hydrodistillation		Single infusions (SI)		Traditional consecutive infusions (TCI)	
	A	B	A	B	A	B
	(% area)	(% area)	(% area)	(% area)	(% area)	(% area)
Hexanal	-	-	7.89	6.69	7.23	6.37
Oxime-metoxo-phenyl	-	-	11.32	10.81	9.58	10.09
Pinene < $\alpha$ ->	-	-	2.57	1.76	3.07	2.07
Camphene	-	-	0.06	0.05	0.06	0.05
Benzaldehyde	0.14	0.13	1.03	2.39	1.09	1.93
Pinene < $\beta$ ->	-	-	4.37	5.85	3.96	5.71
5-Hepten-2-one <6-methyl-5>	0.2	0.19	1.23	1.74	0.97	1.47
Myrcene <( $\beta$ )->	-	-	0.81	0.92	0.72	0.95
Pentyl furan <2->	-	-	0.74	0.88	0.66	0.84
Heptadienal <(2E,4Z)->	0.19	0.14	-	-	-	-
Octanal	-	-	2.13	2.15	2.43	2.29
Heptadienal <(2E,4E)->	0.83	0.71	1.98	2.24	1.86	2.28
Cymene <p->	0.03	0.01	12.19	6.98	9.85	5.9
Limonene	0.18	0.11	15.36	21.85	16.85	17.53
Eucalyptol	0.34	0.23	8.18	6.06	10.46	8.76
Ocimene <(E)- $\beta$ ->	0.26	0.21	0.91	1.06	1.1	1.4
2-octenal <(E)->	0.12	0.09	-	-	-	-
Terpinene < $\gamma$ ->	-	-	1	0.89	1.05	1.32
Octadien-2-one <(3E,5E)->	0.16	0.36	-	-	-	-
Linalooloxide <(Z)->	0.38	0.14	-	-	-	-
Linalooloxide <(E)->	0.44	0.36	-	-	-	-
Fenchone	-	-	0.05	0.03	0.06	0.05
Linalool	18.62	17.57	9.42	8.56	11.86	12.17
Unknown	-	-	3.1	2.95	2.24	2.52
Perillene (?)	-	-	0.16	0.1	0.15	0.09
Pinocarveol <trans->	0.31	0.29	-	-	-	-
Verbenol <trans->	0.06	0.07	-	-	-	-
Camphor	Trace	Trace	-	-	-	-
Nonadienal <(2E,6Z)->	0.11	0.12	-	-	-	-
Menthone	0.06	0.05	-	-	-	-
Isoborneol	-	-	3.28	4.06	2.79	3.64
Menthol	-	-	Trace	Trace	Trace	Trace
Menthol <iso->	0.06	0.07	-	-	-	-

Terpinen-4-ol	0.12	0.12	-	-	-	-
Naphtalene	0.09	0.07	-	-	-	-
MethylSalicylate	0.15	0.13	-	-	-	-
Estragole	-	-	1.85	0.82	1.56	0.73
Terpineol <α->	3.29	3.59	-	-	-	-
Safranal	0.13	0.06	-	-	-	-
Decanal <n>	0.19	0.17	2.24	2.07	1.97	1.94
Cyclocitral <β->	0.61	0.63	1.37	1.75	1.4	1.53
Nerol	1.19	1.34	-	-	-	-
166;136;120;108;93;86;79;69	0.15	0.16	-	-	-	-
Carvone	0.13	0.13	-	-	-	-
Geraniol	3.05	3.29	-	-	-	-
Ionene, <α->	0.35	0.18	-	-	-	-
2-Decenal <(E)- >	0.35	0.36	-	-	-	-
1H-2-Indenone,2,4,5,6,7,7a-hexahydro-3-(1-methylethyl)-7a-methyl	0.41	0.35	1.96	1.51	1.73	1.43
Anethole <(E)->	0.08	0.08	0.99	1.04	1.04	1.2
Safrole	0	0.07				
Carvacrol	-	-	0.21	0.25	0.21	0.29
Edulan I <dihydro-> (?)	0.3	0.29	-	-	-	-
172;157;142;128;115;91;77;69;57	0.28	0.53	-	-	-	-
Undecenal <(2E)-> (?)	0.31	0.27	-	-	-	-
Copaene <α->	0.54	0.56	-	-	-	-
Damascenone <(Z)-β->	3.23	3.14	0.5	0.65	0.6	0.73
192;147;144;131;119;105;93;91;79;69;55	0.53	0.59	-	-	-	-
Elemene <β->	0.84	0.75	-	-	-	-
Damascone <(E)-β->	0.81	0.46	-	-	-	-
192;174;159;144;131;119;105;91;82;77;71	0	0.3	-	-	-	-
Caryophyllene <(E)-β->	0.67	0.7	-	-	-	-
Ionone <(E)-α->	0.44	0.47	-	-	-	-
Merged peaks	0.33	0.3	-	-	-	-
Aromadendrene	0.49	0.38	-	-	-	-
Geranylacetone <(E)->	1.2	1.26	2.06	2.56	2.25	3.1
204;178;163;161;150;135;121;107;91;79;71	0.89	0.98	-	-	-	-
Muurolene <γ->	0.4	0.48	-	-	-	-
Ionone <(E)-β->	1.12	1.03	1.13	1.36	1.28	1.71
Muurola-4(14),5-diene <trans->	0.98	1.02	-	-	-	-
Unknown	0.81	0.92	-	-	-	-

Bicyclogermacrene (?)	1.21	1.08	-	-	-	-
Farnesene <α->	10.71	10.32	-	-	-	-
Cadinene <γ->	0.84	0.81	-	-	-	-
Unknown	0	0.32	-	-	-	-
Nerolidol <(E)->	2.07	2.12	-	-	-	-
Dendrolasin	1.47	1.37	-	-	-	-
Spathulenol	0.97	0.82	-	-	-	-
Caryophyllene oxide	0.44	0.55	-	-	-	-
Merged peaks	0.5	0.42	-	-	-	-
Guaiol	0.44	0.39	-	-	-	-
Hexadecane <n->	0.27	0.25	-	-	-	-
Merged peaks	0.28	0.32	-	-	-	-
Merged peaks	0.26	0.15	-	-	-	-
Cadinol <α->	0.33	0.43	-	-	-	-
6,9-Heptadecadiene (?)	1.04	1.1	-	-	-	-
Unknown	0.58	0.66	-	-	-	-
3-Heptadecene <(Z)-> (?)	2.6	2.57	-	-	-	-
236;258;189;161;145;133;123;119;109;95;81;69;67;57	0.22	0.43	-	-	-	-
Pentadecanone <2->	0.18	0	-	-	-	-
Merged peaks	0.26	0.3	-	-	-	-
Tetradecanoic acid	1.31	1.75	-	-	-	-
122;196;166;138;123;109;96;82;69;57	0.19	0.21	-	-	-	-
278;263;249;236;222;208;193;179;165;151;137;123;109;95;82;71;68;57	1.21	1.41	-	-	-	-
Hexahydrofarnesylacetone	1.39	1.82	-	-	-	-
278;263;249;236;222;208;193;179;165;151;137;123;109;95;82;71;68;57	0.8	0.3	-	-	-	-
Farnesylacetone <(5E,9E)->	0.36	0.45	-	-	-	-
Methyl hexadecanoate	2.32	1.62	-	-	-	-
Isophytol(?)	0.36	0.4	-	-	-	-
Palmitic acid	4.2	4.86	-	-	-	-
272;257;229;215;203;189;175;161;147;136;121;107;93;81;69	0.57	0.62	-	-	-	-
Methyl linolenate	2.2	0.78	-	-	-	-
296;264;236;222;180;166;152;137;123;110;96;83;74	0	0.85	-	-	-	-
Phytol	4.14	4.86	-	-	-	-
Merged peaks	1.01	0.92	-	-	-	-
Merged peaks	0	0.65	-	-	-	-
9-Tricosene <(Z)->	0.07	0.08	-	-	-	-

Tricosane	0.26	0.29	-	-	-	-
242;299;273;257;231;217;203;191;185;161;149;136;121;1007;95;81;69	0.21	0.28	-	-	-	-
Squalene	7.19	6.04	-	-	-	-

'(?)' – low MS library search matches and/or imprecise retention index match.