

Essential Oil: Sweet Orange
 Botanical Name: Citrus sinensis
 Origin: Italy, Mexico



The Herbal Toad
 The Power of Nature

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
α -Pinene	3.34	928	0.55	0.56	947	0.89	Monoterpene
Sabinene	4.04	971	0.26	0.27	1058	1.55	Monoterpene
β -Pinene	4.11	975	0.03	0.03	1040	1.41	Monoterpene
Myrcene	4.38	992	1.67	1.64	1117	2.06	Monoterpene
α -Phellandrene	4.66*	1008	0.07	0.01	1111	2.00	Monoterpene
Δ^3 -Carene	4.66*	1008	[0.07]	0.06	1092	1.82	Monoterpene
Octanal	4.76	1014	0.19	0.18	1234	3.49	Aliphatic aldehyde
Limonene	5.18*	1037	94.09	94.07	1154	2.50	Monoterpene
1,8-Cineole	5.18*	1037	[94.09]	0.17	1155	2.51	Monoterp. ether
para-Cymene	5.18*	1037	[94.09]	0.02	1211	3.16	Monoterpene
trans- β -Ocimene	5.43	1051	0.01	0.01	1206	3.09	Monoterpene
Terpinolene	6.19	1093	tr	tr	1226	3.37	Monoterpene
Octanol	6.31	1099	0.01	0.02	1505	7.80	Aliphatic alcohol
Linalool	6.50	1107	0.37	0.38	1496	7.62	Monoterp. alcohol
Nonanal	6.64	1113	0.04	0.04	1339	4.96	Aliphatic aldehyde
trans-para-Mentha-2,8-dien-1-ol	6.98	1125	0.10	0.14	1555	9.22	Monoterp. alcohol
cis-Limonene oxide	7.17	1132	0.25	0.25	1374	5.48	Monoterp. ether
trans-Limonene oxide	7.28	1136	0.17	0.18	1387	5.66	Monoterp. ether
cis-para-Mentha-2,8-dien-1-ol	7.35	1139	0.09	0.13	1597	10.48*	Monoterp. alcohol
Citronellal	7.77	1155	0.03	0.03	1418	6.15	Monoterp. aldehyde
α -Terpineol	9.22	1206	0.04	0.04	1626	11.48	Monoterp. alcohol
Decanal	9.53	1213	0.18	0.15	1440	6.54	Aliphatic aldehyde
trans-Piperitol	9.70	1217	0.01	0.02	1671	13.53	Monoterp. alcohol
trans-Carveol	10.01	1224	0.15	0.17	1754	17.71	Monoterp. alcohol
cis-Carveol	10.56	1236	0.11	0.12	1780	19.33	Monoterp. alcohol
Carvone	11.00*	1246	0.16	0.08	1648	12.52	Monoterp. ketone
Neral	11.00*	1246	[0.16]	[0.13]	1597	10.48*	Monoterp. aldehyde
Geranial	12.28	1275	0.08	0.04	1665	13.21*	Monoterp. aldehyde
Limonene hydroperoxide I	14.24	1314	0.09				Monoterp. peroxide
Limonene hydroperoxide II	14.98	1326	0.07				Monoterp. peroxide
β -Cubebene	17.68	1368	0.08	0.04	1475	7.20	Sesquiterpene
Valencene	25.91	1475	0.03	[0.04]	1665	13.21*	Sesquiterpene
δ -Cadinene	28.58	1508	0.01				Sesquiterpene
β -Sinensal	39.36	1695	0.03	0.03	2121	38.41	Sesquiterp. aldehyde
α -Sinensal	41.31	1754	0.01	0.01	2225	41.28	Sesquiterp. aldehyde

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Nootkatone	42.29	1786	0.05		Sesquiterp. ketone
Total identified			99.03%	98.89%	

*: 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 : 1.4725 ± 0.0003 (20 °C)

Notes: A deliciously fresh Orange oil, and all 12 key ISO constituents are within range. No adulterant contaminant or diluent were detected.