



Sample & Analysis Information

Sample Information

Sample Name: Lavender 40/42 Essential Oil**Botanical Name:** Lavandula angustifolia**Lot Number:** 13134**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** France**Analysis Date:** 11/15/2024**Manufacture Date:** November 2024

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra**Injection Type:** Split**Split Ratio:** 24.4**Column Type:** ZB-5**Injection Volume:** 0.1 µL**Temperature Program:** 2C/min

Physical Data

ANALYSIS

Optical Rotation @20°C

Refractive Index @20°C

Specific Gravity @20°C

METHOD

USP[781]

USP[831]

USP[841]

RESULTS

-8.68

1.45869

0.89199

Ret. Time	Component	Ret. Idx.	Conc. %	
7.924	1-Methoxyhexane	818	0.01%	
9.057	Hex-(3Z)-enol	846	0.01%	
9.561	Hexanol	859	0.04%	
12.258	Tricyclene	918	0.01%	
12.405	alpha-Thujene	921	0.04%	
12.828	alpha-Pinene	928	0.18%	
13.756	Camphene	944	0.12%	
15.042	Sabinene	967	0.05%	
15.363	beta-Pinene	973	0.24%	
15.705	3-Octanone	979	0.91%	
15.991	Myrcene	984	0.71%	
16.372	Butyl butyrate	990	0.01%	
16.988	Unidentified	1001	0%	
17.072	alpha-Phellandrene	1002	0.02%	
17.213	delta-3-Carene	1004	0.03%	
17.368	Hexyl acetate	1007	0.05%	
17.742	alpha-Terpinene	1012	0.04%	
17.887	ortho-Cymene	1014	0.01%	
18.218	para-Cymene	1019	0.07%	
18.530	Limonene	1024	0.45%	IFRA
18.645	beta-Phellandrene	1026	0.03%	
18.727	1,8-Cineole	1027	3.03%	
18.920	cis-beta-Ocimene	1030	0.49%	
19.619	trans-beta-Ocimene	1040	0.44%	
20.423	gamma-Terpinene	1053	0.07%	
21.230	trans-Sabinene hydrate	1065	0.19%	
22.251	Terpinolene	1080	0.15%	
22.317	trans-Linalool oxide (furanoid)	1081	0.11%	
23.318	Linalool	1096	36.56%	IFRA
23.469	Hotrienol	1098	0.03%	
23.572	Hexyl propionate	1100	0.03%	
23.726	1-Octen-3-yl acetate	1102	0.13%	IFRA
25.156	allo-Ocimene	1123	0.03%	
25.717	Unidentified	1131	0.01%	
26.063	trans-Pinocarveol	1136	0.01%	
26.380	trans-Verbenol	1140	0.01%	
26.509	Camphor	1142	3.4%	
26.655	cis-beta-Terpineol	1144	0.01%	
27.067	trans-beta-Terpineol	1150	0.01%	
27.618	Lavandulol	1158	0.24%	

Ret. Time	Component	Ret. Idx.	Conc. %	
28.104	delta-Terpineol	1165	0.05%	
28.233	Borneol	1167	1.72%	
28.390	trans-Linalool oxide (pyranoid)	1169	0.01%	
28.850	Terpinen-4-ol	1175	6.2%	
29.237	para-Cymen-8-ol	1181	0.04%	
29.589	Hexyl butyrate	1186	0.2%	
29.826	alpha-Terpineol	1189	0.51%	
30.356	Unidentified	1197	0.01%	
30.895	Octyl acetate	1205	0.01%	
31.818	Nerol	1218	0.04%	
32.146	Bornyl formate	1223	0.03%	
32.641	Hexyl 2-methylbutanoate	1230	0.04%	
33.073	Hexyl-3-methylbutanoate	1236	0.09%	
33.186	Unidentified	1238	0.02%	
33.302	Unidentified	1240	0.06%	
33.666	Linalyl acetate	1245	38.36%	
33.930	Unidentified	1249	0.03%	
34.378	Unidentified	1255	0.07%	
35.874	Lavandulyl acetate	1277	1.27%	
38.957	Hexyl tiglate	1323	0.08%	
39.119	Unidentified	1325	0.01%	
39.908	Unidentified	1337	0.01%	
40.095	Unidentified	1340	0.03%	
40.355	Eugenol	1344	0.01%	IFRA
40.858	Neryl acetate	1352	0.21%	
42.145	Geranyl acetate	1371	0.48%	
42.247	Daucene	1373	0.04%	
42.569	alpha-Bourbonene	1377	0.02%	
42.695	Hexyl hexanoate	1379	0.01%	
42.810	7-epi-Sesquithujene	1381	0.04%	
43.766	alpha-Funebrene	1396	0.04%	
44.087	Unidentified	1400	0.01%	
44.455	cis-alpha-Bergamotene	1406	0.01%	
44.611	Lavandulyl isobutyrate	1409	0.03%	
44.865	beta-Caryophyllene	1413	0.72%	
45.706	Unidentified	1426	0.09%	
46.177	cis-beta-Farnesene	1434	0.02%	
46.935	trans-beta-Farnesene	1446	0.47%	
47.119	alpha-Humulene	1449	0.02%	
47.251	Neryl isobutyrate	1451	0.04%	

Ret. Time	Component	Ret. Idx.	Conc. %	
47.522	cis-Muurolo-4(14),5-diene	1455	0.01%	
48.140	Dauca-5,8-diene	1465	0.03%	
48.707	Germacrene D	1474	0.25%	
48.893	trans-beta-Bergamotene	1477	0.02%	
49.599	Unidentified	1488	0.01%	
49.979	Lavandulyl isovalerate	1494	0.15%	
50.130	trans,trans-alpha-Farnesene	1497	0.04%	
50.352	beta-Bisabolene	1500	0.06%	
50.665	gamma-Cadinene	1505	0.11%	
51.310	beta-Sesquiphellandrene	1516	0.04%	
54.760	Caryophyllene oxide	1574	0.04%	
58.200	tau-Cadinol	1634	0.05%	
60.640	alpha-Bisabolol	1677	0.11%	IFRA

Total Identified Compounds **99.69 %**

