



Sample & Analysis Information

Sample Information

Sample Name: Basil, Sweet Essential Oil**Botanical Name:** Ocimumbasilicum **Lot Number:** 13214**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 10/7/2024**Date of Distillation:** October 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

-6.24

1.50569

0.94059

Ret. Time	Component	Ret. Idx.	Conc. %	
4.025	3-Methylbutanal	646	0.01%	
12.225	alpha-Pinene	930	0.1%	
14.383	Sabinene	970	0.01%	
14.677	beta-Pinene	975	0.06%	
15.002	6-Methyl hept-5-en-2-one	981	0.2%	
15.318	Myrcene	987	0.06%	
16.515	delta-3-Carene	1007	0.07%	
17.507	para-Cymene	1022	0.03%	
17.798	Limonene	1027	0.14%	IFRA
17.966	1,8-Cineole	1029	0.11%	
18.206	cis-beta-Ocimene	1033	0.01%	
18.879	trans-beta-Ocimene	1043	0.2%	
19.674	Unidentified	1055	0.01%	
20.467	cis-Linalool oxide (furanoid)	1068	0.06%	
21.524	trans-Linalool oxide (furanoid)	1084	0.06%	
21.666	Fenchone	1086	0.01%	
22.482	Linalool	1098	22.04%	IFRA
22.680	Unidentified	1101	0.02%	
26.279	Menthone	1154	0.03%	
26.885	Isomenthone	1162	0.01%	
27.220	Unidentified	1167	0.02%	
27.772	Menthol	1175	0.44%	
27.957	Isogeranial	1178	0.04%	IFRA
28.551	Hex-(3Z)-enyl butyrate	1187	0.02%	
28.995	alpha-Terpineol	1193	0.2%	
29.346	Estragole	1198	68.4%	IFRA
30.959	Nerol	1222	0.1%	
31.893	Neral	1235	1.03%	IFRA
32.726	Geraniol	1248	0.11%	IFRA
33.908	Geranial	1265	1.59%	IFRA
39.460	Eugenol	1348	0.06%	IFRA
39.953	Neryl acetate	1356	0.02%	
41.081	alpha-Copaene	1373	0.03%	
41.235	Unidentified	1375	0.01%	
41.615	Hex-(3Z)-enyl hex-(3Z)-enoate	1381	0.07%	
41.858	Unidentified	1385	0.02%	
41.975	beta-Elementene	1387	0.02%	
42.633	Methyleugenol	1397	0.02%	IFRA
43.089	Unidentified	1404	0.01%	
43.222	Unidentified	1406	0.02%	

Ret. Time	Component	Ret. Idx.	Conc. %	
43.477	Unidentified	1410	0.02%	
43.869	beta-Caryophyllene	1416	0.51%	
44.733	trans-alpha-Bergamotene	1430	0.61%	
45.201	cis-beta-Farnesene	1438	0.06%	
45.977	trans-beta-Farnesene	1450	0.24%	
46.114	alpha-Humulene	1452	0.27%	
47.706	Germacrene D	1478	0.26%	
47.894	trans-beta-Bergamotene	1481	0.08%	
48.192	Unidentified	1486	0.02%	
48.593	cis,trans-alpha-Farnesene	1492	0.06%	
49.367	beta-Bisabolene	1505	0.09%	
49.981	delta-Cadinene	1515	0.04%	
51.318	trans-alpha-Bisabolene	1538	2.02%	
52.510	trans-Nerolidol	1558	0.03%	
52.889	trans-para-Methoxycinnamaldehyde	1564	0.12%	
53.419	Unidentified	1573	0.02%	
53.729	Caryophyllene oxide	1578	0.05%	
59.639	alpha-Bisabolol	1682	0.02%	IFRA

Total Identified Compounds **99.82 %**

TIC

12,535,399

