



Sample & Analysis Information

Sample Information

Sample Name: Sweet Orange 10X Essential Oil**Botanical Name:** Citrus sinensis**Lot Number:** 13184**Production Method:** Cold Press**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 3/12/2025**Manufacture Date:** March 2025

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

+83.68

1.46897

0.84562

Ret. Time	Component	Ret. Idx.	Conc. %	
4.506	Heptane	700	0%	
10.358	Nonane	900	0.01%	
11.675	alpha-Thujene	924	0.04%	
12.074	alpha-Pinene	931	0.54%	
14.209	Sabinene	971	0.32%	
14.506	beta-Pinene	976	0.15%	
15.133	Myrcene	988	1.64%	
15.974	Octanal	1003	1.27%	
16.075	Unidentified	1004	0.01%	
16.181	alpha-Phellandrene	1006	0.04%	
16.321	delta-3-Carene	1008	0.06%	
16.836	alpha-Terpinene	1016	0.02%	
17.324	para-Cymene	1024	0.44%	
17.711	Limonene	1030	81.16%	IFRA
17.770	beta-Phellandrene	1030	0.17%	
18.008	cis-beta-Ocimene	1034	0.01%	
18.679	trans-beta-Ocimene	1044	0.06%	
19.457	gamma-Terpinene	1056	1.28%	
20.243	Octanol	1069	0.2%	
21.242	Terpinolene	1084	0.03%	
21.315	trans-Linalool oxide (furanoid)	1085	0%	
22.196	Linalool	1099	2.87%	IFRA
22.549	Nonanal	1104	0.36%	
23.685	trans-para-Mentha-2,8-dienol	1120	0.02%	
24.435	cis-Limonene oxide	1131	0.05%	
24.695	cis-para-Mentha-2,8-dien-1-ol	1135	0.01%	
24.726	trans-Limonene oxide	1136	0.03%	
25.509	Isopulegol	1147	0.05%	
25.770	Citronellal	1151	0.54%	IFRA
26.036	Menthone	1155	0.01%	
26.199	Isoisopulegol	1157	0.02%	
28.720	alpha-Terpineol	1194	0.98%	
29.515	Decanal	1205	5.23%	
29.787	Octyl acetate	1209	0.13%	
30.346	trans-Carveol	1218	0.01%	
30.701	Nerol	1223	0.03%	
30.862	Citronellol	1225	0.1%	IFRA
31.249	cis-Carveol	1231	0.01%	
31.637	Neral	1237	0.39%	IFRA
32.037	Carvone	1242	0.03%	IFRA

Ret. Time	Component	Ret. Idx.	Conc. %	
32.467	Geraniol	1249	0.04%	IFRA
33.653	Geranial	1266	0.65%	IFRA
33.993	1-Decanol	1271	0.02%	
39.677	Neryl acetate	1357	0.07%	
40.779	alpha-Copaene	1374	0.03%	
43.008	Dodecanal	1408	0.58%	
43.570	beta-Caryophyllene	1417	0.22%	
44.431	trans-alpha-Bergamotene	1431	0.02%	
45.811	alpha-Humulene	1453	0.03%	
47.400	Germacrene D	1479	0.03%	
49.064	beta-Bisabolene	1505	0.01%	
49.678	delta-Cadinene	1516	0.01%	
52.060	Germacrene B	1556	0.01%	

Total Identified Compounds **100.03 %**

TIC

29,082,421

