



Sample & Analysis Information

Sample Information

Sample Name: Ylang Ylang III Essential Oil**Sample Type:** EO - Single**Botanical Name:** Cananga odorata var. geniuna**Country of Origin:** Madagascar**Lot Number:** 13259**Analysis Date:** 1/8/2025**Production Method:** Steam distilled**Manufacture Date:** January 2025

GC/MS

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

Physical Data

ANALYSIS

METHOD

RESULTS

Optical Rotation @20°C

USP[781]

-42.06

Refractive Index @20°C

USP[831]

1.50242

Specific Gravity @20°C

USP[841]

0.91974

Ret. Time	Component	Ret. Idx.	Conc. %	
9.568	4-Pentenyl acetate	879	0.01%	
11.320	Prenyl acetate	918	0.04%	
12.026	alpha-Pinene	931	0.18%	
13.595	Benzaldehyde	959	0.01%	IFRA
14.455	beta-Pinene	975	0.05%	
15.086	Myrcene	987	0.08%	
16.035	Hex-(3E)-enyl acetate	1004	0.02%	
16.462	Hexyl acetate	1010	0.02%	
16.982	para-Methylanisole	1018	1.36%	
17.555	Limonene	1027	0.03%	IFRA
17.732	1,8-Cineole	1030	0.1%	
17.830	Benzyl alcohol	1031	0.01%	IFRA
17.958	cis-beta-Ocimene	1033	0.01%	
18.631	trans-beta-Ocimene	1044	0.01%	
20.203	cis-Linalool oxide (furanoid)	1068	0.01%	
20.275	para-Cresol	1069	0.03%	IFRA
21.773	Methyl benzoate	1092	0.76%	
22.160	Linalool	1098	4.54%	IFRA
25.154	Veratrole analogue	1142	0.01%	
26.396	Benzyl acetate	1160	0.84%	
26.964	Ethyl benzoate	1168	0.03%	
28.449	Methyl salicylate	1190	0.02%	
28.676	alpha-Terpineol	1193	0.11%	
28.897	Estragole	1196	0.05%	IFRA
30.674	Nerol	1222	0.01%	
31.618	Neral	1236	0.01%	IFRA
32.417	Geraniol	1248	0.9%	IFRA
32.676	2-Phenethyl acetate	1252	0.02%	
33.629	Geranial	1266	0.03%	IFRA
34.884	trans-Anethole	1284	0.03%	
35.655	1-Nitro-2-phenylethane	1296	0.02%	
36.391	4-Vinylguaiacol	1307	0.02%	
37.505	Unidentified	1324	0.03%	
37.897	Unidentified	1330	0.06%	
38.036	Unidentified	1332	0.08%	
38.090	delta-Elemene	1333	0.03%	
38.876	alpha-Cubebene	1345	0.21%	
39.144	Eugenol	1349	0.32%	IFRA
39.355	Unidentified	1352	0.02%	
39.644	Neryl acetate	1356	0.02%	

Ret. Time	Component	Ret. Idx.	Conc. %	
40.092	Unidentified	1363	0.02%	
40.321	alpha-Ylangene	1367	0.17%	
40.743	alpha-Copaene	1373	1.43%	
40.939	Geranyl acetate	1376	6.9%	
41.256	Unidentified	1381	0.02%	
41.535	bets-Cubebene	1385	0.12%	
41.640	beta-Elemene	1387	0.56%	
41.943	Unidentified	1391	0.03%	
42.343	Methyleugenol	1398	0.01%	IFRA
42.489	Cyperene	1400	0.02%	
42.995	beta-Ylangene	1408	0.01%	
43.575	beta-Caryophyllene	1417	15.69%	
43.852	Unidentified	1422	0.03%	
44.183	beta-Copaene	1427	0.51%	
44.410	Unidentified	1431	0.06%	
44.714	Aromadendrene	1435	0.04%	
45.146	trans-Cinnamyl acetate	1442	0.52%	
45.215	Unidentified	1443	0.11%	
45.383	Cadina-3,5-diene	1446	0.28%	
45.495	trans-Murrola-3,5-diene	1448	0.15%	
45.660	trans-beta-Farnesene	1451	0.07%	
45.783	alpha-Humulene	1453	4.15%	
45.939	Unidentified	1455	0.05%	
46.047	cis-Cadina-1(6),4-diene	1457	0.07%	
46.192	cis-Muurolo-4(14),5-diene	1459	0.2%	
46.819	trans-Cadina-1(6),4-diene	1469	0.31%	
47.023	gamma-Muuroloene	1472	2.19%	
47.420	Germacrene D	1479	18.98%	
47.745	Unidentified	1484	0.01%	
47.887	Prenyl benzoate	1486	0.15%	
48.073	trans-Murrola-4(14),5-diene	1489	1.03%	
48.256	Bicyclogermacrene	1492	0.51%	
48.462	alpha-Muuroloene	1496	1.38%	
48.669	(Z,E)-alpha-Farnesene	1499	2.55%	
48.861	(E,E)-alpha-Farnesene	1502	10.15%	
49.063	Unidentified	1505	0.08%	
49.150	Unidentified	1507	0.03%	
49.334	gamma-Cadinene	1510	1.18%	
49.430	Cubebol	1512	0.02%	
49.656	delta-Cadinene	1515	4.15%	

Ret. Time	Component	Ret. Idx.	Conc. %	
49.845	cis-Calamenene	1519	0.09%	
49.917	Zonarene	1520	0.24%	
50.156	trans-gamma-Bisabolene	1524	0.01%	
50.490	trans-Cadine-1,4-diene	1530	0.25%	
50.739	alpha-Cadinene	1534	0.32%	
50.979	alpha-Calacorene	1538	0.08%	
51.235	Benzyl hexanoate	1542	0.01%	
51.410	alpha-Elemol	1545	0.06%	
52.023	Unidentified	1555	0.01%	
52.187	trans-Nerolidol	1558	0.11%	
52.640	Unidentified	1566	0.01%	
52.788	Hex-(3Z)-enyl benzoate	1568	0.01%	
53.085	Unidentified	1573	0.08%	
53.393	10-epi-Junenol	1579	0.15%	
53.610	Globulol	1582	0.1%	
53.862	Unidentified	1587	0.09%	
54.052	alpha-Muurolol	1590	0.11%	
54.252	Guaiol	1593	0.07%	
54.631	Unidentified	1600	0.01%	
54.838	Rosifoliol	1603	0.02%	
54.989	Humulene epoxide II	1606	0.02%	
55.140	Unidentified	1609	0.02%	
55.328	Unidentified	1612	0.09%	
55.713	Humulane-1,6-dien-3-ol	1619	0.39%	
55.825	Unidentified	1621	0.03%	
56.034	Epicubenol	1624	0.29%	
56.264	gamma-Eudesmol	1629	0.04%	
56.392	Unidentified	1631	0.1%	
56.671	Unidentified	1636	0.01%	
56.847	epi-alpha-Cadinol	1639	0.65%	
56.949	epi-alpha-Muurolol	1641	1%	
57.097	tau-Cadinol	1643	0.36%	
57.239	Cadin-4-en-10-ol	1646	0.05%	
57.400	Unidentified	1649	0.02%	
57.591	alpha-Cadinol	1652	2.08%	
57.745	Unidentified	1655	0.03%	
58.115	Unidentified	1662	0.01%	
58.432	Striatol	1667	0.14%	
58.817	Unidentified	1674	0.03%	
60.904	(2E,6E)-Farnesol	1712	1.17%	IFRA

Ret. Time	Component	Ret. Idx.	Conc. %	
61.616	Unidentified	1725	0.01%	
63.658	Benzyl benzoate	1763	5.13%	IFRA
63.964	Unidentified	1769	0.01%	
67.123	Farnesyl acetate	1829	1.47%	
68.923	Benzyl salicylate	1865	0.89%	IFRA
73.527	Geranyl benzoate	1958	0.05%	

Total Identified Compounds **98.81 %**

