



Sample Information

Sample Name: Neroli Essential Oil**Botanical Name:** Citrus aurantium**Lot Number:** 13024**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Egypt/Tunisia**Analysis Date:** 10/3/2024**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 μ L**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

+3.04

1.46965

0.87378

Ret. Time	Component	Ret. Idx.	Conc. %	
12.474	alpha-Thujene	922	0.01%	
12.895	alpha-Pinene	929	1.13%	
13.821	Camphene	945	0.04%	
15.117	Sabinene	968	1.9%	
15.442	beta-Pinene	974	7.59%	
15.755	Unidentified	979	0.01%	
16.055	Myrcene	985	1.09%	
17.000	Pseudolimonene	1001	0.1%	
17.153	alpha-Phellandrene	1003	0.01%	
17.298	delta-3-Carene	1006	0.01%	
17.824	alpha-Terpinene	1014	0.03%	
18.305	para-Cymene	1021	0.04%	
18.637	Limonene	1026	13.74%	IFRA
18.734	beta-Phellandrene	1027	0.06%	
18.825	1,8-Cineole	1029	0.13%	
19.005	cis-beta-Ocimene	1031	1.26%	
19.704	trans-beta-Ocimene	1042	3.69%	
20.513	gamma-Terpinene	1054	0.04%	
21.336	cis-Linalool oxide (furanoid)	1066	0.14%	
22.344	Terpinolene	1081	0.32%	
22.414	trans-Linalool oxide (furanoid)	1082	0.14%	
23.416	Linalool	1097	43.29%	IFRA
23.575	Hotrienol	1100	0.02%	
24.103	Phenylethyl alcohol	1107	0.07%	
24.247	trans-4,8-Dimethylnona-1,3,7-triene	1110	0.01%	
25.259	allo-Ocimene	1124	0.1%	
25.846	Benzeneacetonitrile	1132	0.04%	IFRA
26.087	neo-allo-Ocimene	1136	0.05%	
26.611	Camphor	1143	0.08%	
28.204	delta-Terpineol	1166	0.04%	
28.335	Borneol	1168	0.05%	
28.478	cis-Linalool oxide (pyranoid)	1170	0%	
28.936	Terpinen-4-ol	1177	0.08%	
29.421	2,6-dimethyl-3,7-Octadiene-2,6-diol	1184	0.08%	
29.963	alpha-Terpineol	1191	7.29%	
31.918	Nerol	1220	0.71%	
32.081	Citronellol	1222	0.01%	IFRA
33.282	Carvone	1239	0.01%	IFRA
33.697	Linalyl acetate	1245	6.66%	
33.795	Geraniol	1247	0.02%	IFRA

Ret. Time	Component	Ret. Idx.	Conc. %	
33.948	2-Phenethyl acetate	1249	0.11%	
34.907	Geranial	1263	0.03%	IFRA
36.395	Indole	1285	0.21%	
39.493	delta-Elemene	1331	0.01%	
39.696	Methyl anthranilate	1334	0.55%	
40.203	alpha-Terpinyl acetate	1342	0.03%	
40.971	Neryl acetate	1353	2.06%	
42.261	Geranyl acetate	1373	3.82%	
44.985	beta-Caryophyllene	1415	0.54%	
47.043	trans-beta-Farnesene	1448	0.02%	
47.234	alpha-Humulene	1451	0.04%	
48.821	Germacrene D	1476	0.02%	
49.713	Bicyclogermacrene	1490	0.05%	
50.239	trans,trans-alpha-Farnesene	1498	0.01%	
51.080	delta-Cadinene	1512	0.01%	
52.858	alpha-Elemol	1542	0.01%	
53.613	trans-Nerolidol	1555	1.42%	
54.188	Unidentified	1565	0.01%	
54.541	Unidentified	1570	0.02%	
54.877	Caryophyllene oxide	1576	0.04%	
55.568	Viridiflorol	1588	0.02%	
57.255	Unidentified	1617	0.02%	
62.364	(2Z,6Z)-Farnesol	1707	0.82%	IFRA
63.517	(E,E)-Farnesal	1729	0%	
64.951	Unidentified	1755	0.04%	
71.492	Unidentified	1881	0.03%	

Total Identified Compounds **99.9 %**

TIC

16,469,637

