



Essential Oil University

GC/MS Report

Item	Lot
Ravensara (Aromatica) EO <i>Ravensara aromatica</i>	9B
Date	Analyst
1/14/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Ravensara (Aromatica) EO, meets the expected chemical profile for authentic essential oil of *Ravensara aromatica*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.



Sample Information

Company: Revive**Sample Name:** Ravensara (Aromatica) EO**Botanical Name:** Ravensara aromatica**Lot Number:** 9B**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Madagascar**Analysis Date:** 1/14/2025**Manufacture Date:** August 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

-17.16

1.48221

0.88127



Ret. Time	Component	Ret. Idx.	Conc. %	
5.827	Toluene	763	0%	
11.385	Hashishene	919	0%	
11.511	Tricyclene	921	0.01%	
11.660	alpha-Thujene	924	0.48%	
12.068	alpha-Pinene	931	5.69%	
12.853	alpha-Fenchene	946	0.05%	
12.951	Camphene	948	0.62%	
14.226	Sabinene	971	15.34%	
14.507	beta-Pinene	976	4.05%	
15.126	Myrcene	988	2.17%	
15.976	Unidentified	1003	0.03%	
16.179	alpha-Phellandrene	1006	2.8%	
16.328	delta-3-Carene	1008	6.64%	
16.686	1,4-Cineole	1014	0.01%	
16.826	alpha-Terpinene	1016	1.33%	
16.982	ortho-Cymene	1018	0.11%	
17.305	para-Cymene	1023	0.78%	
17.637	Limonene	1028	15.65%	IFRA
17.723	beta-Phellandrene	1030	1.07%	
17.789	1,8-Cineole	1031	1.33%	
18.001	cis-beta-Ocimene	1034	1.53%	
18.153	2-Heptyl acetate	1036	0.06%	
18.676	trans-beta-Ocimene	1044	0.14%	
19.116	Unidentified	1051	0.03%	
19.456	gamma-Terpinene	1056	1.03%	
20.218	trans-Sabinene hydrate	1068	0.09%	
20.974	Isoterpinolene	1080	0.03%	
21.135	Unidentified	1082	0.01%	
21.235	Terpinolene	1084	0.5%	
22.212	Linalool	1099	5.66%	IFRA
23.317	Unidentified	1115	0.02%	
23.675	trans-para-Mentha-2,8-dienol	1120	0.01%	
23.860	cis-para-Menth-2-en-1-ol	1123	0.04%	
24.113	allo-Ocimene	1127	0.1%	
25.079	trans-para-Menth-2-en-1-ol	1141	0.03%	
27.106	Borneol	1170	0.26%	
27.580	Unidentified	1177	0.01%	
27.725	Terpinen-4-ol	1179	3.85%	
28.138	para-Cymen-8-ol	1185	0.02%	
28.715	alpha-Terpineol	1194	0.47%	



Ret. Time	Component	Ret. Idx.	Conc. %	
28.933	Estragole	1197	2.84%	IFRA
29.256	alpha-Phellandrene epoxide	1202	0.03%	
29.659	trans-Piperitol	1207	0.01%	
30.101	Unidentified	1214	0.01%	
33.658	Geranial	1266	0.02%	IFRA
34.070	cis-Ascrinol glycol	1272	0.01%	
34.765	Bornyl acetate	1283	0.13%	
34.910	trans-Anethole	1285	0.93%	
35.384	Dihydroedulan isomer	1292	0.08%	
37.105	Unidentified	1318	0.02%	
37.220	Unidentified	1319	0.02%	
37.918	Elemene isomer	1330	0.04%	
38.149	delta-Elemene	1334	0.6%	
38.920	alpha-Cubebene	1345	0.39%	
39.188	Eugenol	1349	0.04%	IFRA
39.685	Neryl acetate	1357	0%	
40.366	alpha-Ylangene	1367	0.04%	
40.792	alpha-Copaene	1374	1.08%	
40.965	Geranyl acetate	1377	0.02%	
41.205	Elemene isomer	1380	0.03%	
41.301	beta-Bourbonene	1382	0.05%	
41.577	beta-Cubebene	1386	0.37%	
41.686	beta-Elemene	1388	0.75%	
42.385	Methyleugenol	1398	3.85%	IFRA
42.810	alpha-Gurjunene	1405	0.02%	
43.599	beta-Caryophyllene	1418	5.15%	
44.225	beta-Copaene	1428	0.1%	
44.764	Aromandendrene	1436	0.03%	
44.956	6,9-Guaiadiene	1439	0.03%	
45.130	Isogermacrene D	1442	0.01%	
45.426	trans-Murrola-3,5-diene	1447	0.09%	
45.540	Unidentified	1449	0.01%	
45.694	trans-beta-Farnesene	1451	0.02%	
45.824	alpha-Humulene	1453	0.73%	
46.099	Alloaromadendrene	1458	0.27%	
46.237	cis-Cadina-1(6),4-diene	1460	0.02%	
46.864	cis-Murrola-4(14),5-diene	1470	0.06%	
47.050	gamma-Muurolene	1473	0.15%	
47.426	Germacrene D	1479	4.23%	
47.796	delta-Selinene	1485	0.04%	

Ret. Time	Component	Ret. Idx.	Conc. %	
47.904	beta-Selinene	1487	0.1%	
48.072	trans-Muurolo-4(14),5-diene	1489	0.16%	
48.300	Bicyclogermacrene	1493	0.65%	
48.502	alpha-Muuroloene	1496	0.18%	
48.766	ala-Bulnesene + delta-Amorphene	1500	0.06%	
48.875	trans,trans-alpha-Farnesene	1502	0.01%	
49.079	beta-Bisabolene	1506	0.08%	
49.378	gamma-Cadinene	1511	0.14%	
49.499	Cubebol	1513	0.08%	
49.687	delta-Cadinene	1516	0.78%	
49.878	cis-Calamenene	1519	0.07%	
49.960	Unidentified	1521	0.02%	
50.532	trans-Cadine-1,4-diene	1530	0.08%	
50.781	alpha-Cadinene	1535	0.03%	
51.041	Unidentified	1539	0.01%	
51.420	Elemicin	1545	0.53%	
51.464	Elemol	1546	1.47%	
52.069	Germacrene B	1556	0.05%	
52.965	Unidentified	1571	0%	
53.121	Spathulenol	1574	0.06%	
53.429	Caryophyllene oxide	1579	0.13%	
53.658	Unidentified	1583	0.01%	
54.299	Guaiol	1594	0.07%	
55.220	Unidentified	1610	0%	
55.400	Unidentified	1613	0.02%	
55.773	Unidentified	1620	0.02%	
55.965	Unidentified	1623	0.01%	
56.086	1-Epicubenol	1625	0.1%	
56.312	gamma-Eudesmol	1629	0.09%	
56.894	tau-Cadinol	1640	0.08%	
56.988	epi-alpha-Cadinol	1641	0.09%	
57.138	delta-Cadinol	1644	0.07%	
57.285	Unidentified	1647	0.02%	
57.631	Cadin-4-en-10-ol	1653	0.32%	
57.800	Unidentified	1656	0.04%	
58.173	Bulnesol	1663	0.01%	
63.643	Unidentified	1763	0.01%	

Total Identified Compounds **99.7 %**

