



Essential Oil University

GC/MS Report

Rhododendron (Anthopogon) EO

Rhododendron anthopogon

Item | Lot

8E

Date | Analyst

3/4/2025

Dr. Robert S. Pappas

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The analysis of this batch sample, Rhododendron (Anthopogon) EO, meets the expected chemical profile for authentic essential oil of *Rhododendron anthopogon*. 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:** Rhododendron (Anthopogon) EO**Botanical Name:** Rhododendron anthopogon**Lot Number:** 8E**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Nepal**Analysis Date:** 3/4/2025**Manufacture Date:** February 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

+0.60

1.47753

0.86763



Ret. Time	Component	Ret. Idx.	Conc. %	
5.878	Toluene	760	0.01%	IFRA
6.656	Octane	796	0.01%	
7.751	Ethyl butyl ketone	827	0.02%	
7.931	4-Methyl-3-hexanone	831	0.01%	
10.960	Unidentified	907	0.01%	
11.489	Hashishene	917	0.01%	
11.608	Tricyclene	919	0.07%	
11.765	alpha-Thujene	922	0.33%	
12.236	alpha-Pinene	931	30.14%	
12.440	5-Methyl-3-heptanone	934	0.02%	
12.955	alpha-Fenchene	944	0.07%	
13.050	Camphene	945	0.38%	
14.314	Sabinene	968	0.1%	
14.652	beta-Pinene	974	16.27%	
15.102	para-Menth-3-ene	983	0.02%	
15.241	Myrcene	985	1.39%	
16.138	Pseudolimonene	1001	0.02%	
16.285	alpha-Phellandrene	1004	0.04%	
16.434	delta-3-Carene	1006	0.02%	
16.943	alpha-Terpinene	1014	0.18%	
17.424	para-Cymene	1021	0.46%	
17.764	Limonene	1026	13.91%	IFRA
17.837	beta-Phellandrene	1027	0.15%	
17.885	1,8-Cineole	1028	0.02%	
18.126	cis-beta-Ocimene	1032	3.59%	
18.269	2-Heptyl acetate	1034	0.03%	
18.799	trans-beta-Ocimene	1042	2.08%	
19.592	gamma-Terpinene	1054	4.34%	
20.372	trans-Sabinene hydrate	1066	0.01%	
21.375	Terpinolene	1081	0.37%	
21.571	Fenchone	1084	0.02%	
21.695	para-Cymenene	1086	0.01%	
21.862	Ethyl sorbate	1089	0.01%	
22.156	Unidentified	1093	0.05%	
22.316	Linalool	1096	0.21%	IFRA
23.629	endo-Fenchol	1115	0.04%	
24.265	allo-Ocimene	1124	0.29%	
24.811	2-Octyl acetate isomer	1132	0.02%	
25.090	neo-allo-Ocimene	1136	0.04%	
26.078	Camphene hydrate	1151	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
27.237	Borneol	1168	0.04%	
27.852	Terpinen-4-ol	1176	0.21%	
28.853	alpha-Terpineol	1191	0.43%	
29.219	Unidentified	1196	0.01%	
31.005	Citronellol	1222	0.02%	IFRA
31.509	Unidentified	1230	0.01%	
32.199	Unidentified	1240	0.04%	
32.603	Neryl butyrate	1246	0.01%	
34.660	Unidentified	1276	0.01%	
34.906	Bornyl acetate	1280	0.16%	
39.089	alpha-Cubebene	1343	0.2%	
39.251	Citronellyl acetate	1345	0.22%	IFRA
39.562	Unidentified	1350	0.01%	
40.536	alpha-Ylangene	1365	0.07%	
40.635	Unidentified	1366	0.01%	
40.956	alpha-Copaene	1371	0.54%	
41.114	Geranyl acetate	1374	0.01%	
41.470	beta-Bourbonene	1379	0.11%	
41.738	trans-Murrola-4(14),5-diene	1383	0.02%	
41.854	beta-Elemene	1385	0.15%	
42.156	Unidentified	1389	0.01%	
42.692	alpha-Funebrene	1398	0.04%	
42.972	alpha-Gurjunene	1402	0.13%	
43.752	beta-Caryophyllene	1414	1.9%	
44.219	gamma-Maaliene	1422	0.01%	
44.401	beta-Copaene	1425	0.17%	
44.644	alpha-Maaliene	1429	0.04%	
44.935	Aromadendrene	1433	0.27%	
45.060	Unidentified	1435	0.01%	
45.389	cis-Murrola-3,5-diene	1441	0.09%	
45.594	trans-Murrola-3,5-diene	1444	0.26%	
45.858	cis-beta-Farnesene	1448	0.39%	
45.988	alpha-Humulene	1450	0.35%	
46.267	Alloaromodendrene	1455	0.43%	
46.408	cis-Cadina-1(6),4-diene	1457	0.14%	
46.520	Unidentified	1459	0.01%	
47.030	trans-Cadina-1(6),4-diene	1467	0.64%	
47.218	gamma-Muurolene	1470	1.28%	
47.394	gamma-Curcumene	1473	0.08%	
47.472	alpha-Amorphene	1474	0.06%	



Ret. Time	Component	Ret. Idx.	Conc. %	
47.584	Germacrene D	1476	0.21%	
47.837	Unidentified	1480	0.09%	
48.071	beta-Selinene	1484	0.59%	
48.238	gamma-Amorphene	1486	0.54%	
48.518	alpha-Selinene	1491	0.89%	
48.686	alpha-Murolene	1494	2.07%	
48.943	Cadinene isomer	1498	0.08%	
49.048	trans,trans-alpha-Farnesene	1499	0.17%	
49.255	beta-Bisabolene	1503	0.02%	
49.361	beta-Curcumene	1505	0.31%	
49.556	gamma-Cadinene	1508	2.05%	
49.891	delta-Cadinene	1513	5.55%	
50.090	cis-Calamenene	1517	0.14%	
50.140	Zonarene	1518	0.45%	
50.707	trans-Cadina-1,4-diene	1527	0.25%	
50.961	alpha-Cadinene	1532	0.43%	
51.209	alpha-Calacorene	1536	0.08%	
51.576	Unidentified	1542	0.02%	
52.393	trans-Nerolidol	1556	0.04%	
52.943	Unidentified	1565	0.03%	
53.293	Spathulenol	1571	0.05%	
53.602	Caryophyllene oxide	1576	0.03%	
53.837	Unidentified	1580	0.04%	
54.331	Viridiflorol	1588	0.01%	
54.476	Unidentified	1591	0.01%	
54.932	Ledol	1598	0.06%	
55.394	Rosifoliol	1607	0.01%	
55.546	1,10-di-epi-Cubenol	1609	0.04%	
56.170	Unidentified	1620	0.01%	
56.258	Epicubenol	1622	0.1%	
56.488	gamma-Eudesmol	1626	0.03%	
56.796	Unidentified	1632	0.02%	
57.067	tau-Cadinol	1636	0.43%	
57.174	epi-alpha-Murolol	1638	0.57%	
57.314	epi-alpha-Cadinol	1641	0.23%	
57.816	alpha-Cadinol	1650	0.84%	
57.980	Unidentified	1653	0.01%	
59.627	alpha-Bisabolol	1682	0.05%	IFRA
59.947	Shyobunol	1688	0.03%	
62.337	Unidentified	1732	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %
63.149	Unidentified	1747	0.01%

Total Identified Compounds **99.54 %**

