

Sample & Analysis Information

Sample Information

Sample Name: Cornmint Essential Oil**Botanical Name:** Mentha arvensis**Lot Number:** 13055**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** India**Analysis Date:** 1/7/2025**Manufacture Date:** January 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

-13.64

1.46159

0.90350

Ret. Time	Component	Ret. Idx.	Conc. %	
12.030	alpha-Pinene	931	0.02%	
15.089	Myrcene	987	0.04%	
15.511	3-Octanol	995	0.42%	
17.556	Limonene	1027	2.13%	IFRA
17.726	1,8-Cineole	1030	0.55%	
20.209	Octanol	1068	0.06%	
22.002	3-Nonanol	1096	0.02%	
22.141	Linalool	1098	0.29%	IFRA
22.967	Phenylethyl alcohol	1110	0.02%	
23.459	endo-Fenchol	1117	0.02%	
23.636	trans-para-Mentha-2,8-dienol	1120	0.09%	
24.515	Unidentified	1132	0.02%	
24.635	cis-, para-Mentha-2,8-dien-1-ol	1134	0.05%	
24.855	trans-Sabinol	1137	0.05%	
24.921	trans-Pinocarveol	1138	0.05%	
25.065	Unidentified	1140	0.02%	
25.272	trans-Verbenol	1144	0.05%	
25.468	Isopulegol	1146	1.77%	
25.759	Citronellal	1151	0.03%	IFRA
26.050	Menthone	1155	18.63%	
26.185	Unidentified	1157	0.04%	
26.290	trans-Pinocamphone	1158	0.03%	
26.630	Isomenthone	1163	9.92%	
26.971	Neomenthol	1168	6.37%	
27.092	Isoborneol	1170	0.09%	
27.333	trans-Isopulegone	1174	0.64%	
27.648	Menthol	1178	44.06%	
27.715	Terpinen-4-ol	1179	0.19%	
27.953	Unidentified	1183	0.4%	
28.256	Isomenthol	1187	1.4%	
28.464	Neoisomenthol	1190	0.81%	
28.701	alpha-Terpineol	1193	2.8%	
28.896	Unidentified	1196	0.11%	
29.025	cis-Isopiperitenol	1198	0.07%	
29.482	Verbenone	1205	0.01%	
29.764	Unidentified	1209	0.03%	
30.041	Unidentified	1213	0.06%	
31.322	Unidentified	1232	0.03%	
31.460	Unidentified	1234	0%	
31.592	Pulegone	1236	1.02%	

Ret. Time	Component	Ret. Idx.	Conc. %	
31.989	Carvone	1242	0.09%	IFRA
32.649	Piperitone	1251	0.04%	
33.927	Neomenthyl acetate	1270	0.02%	
34.980	Unidentified	1286	0.02%	
35.165	Menthyl acetate	1288	4.17%	
35.644	Unidentified	1295	0.04%	
36.479	Nonyl acetate	1308	0.03%	
36.912	Unidentified	1315	0.02%	
37.204	Unidentified	1319	0.02%	
37.871	delta-Elemene	1329	0.41%	
38.854	Unidentified	1344	0.02%	
39.010	Unidentified	1347	0.02%	
39.977	Unidentified	1361	0.03%	
40.311	alpha-Ylangene	1367	0.06%	
40.610	Longicyclene	1371	0.07%	
40.733	alpha-Copaene	1373	0.11%	
41.090	Unidentified	1378	0.05%	
41.240	beta-Bourbonene	1381	0.06%	
43.517	beta-Caryophyllene	1416	1.11%	
47.661	Unidentified	1483	0.12%	
48.241	Bicyclogermacrene	1492	0.03%	
48.446	epsilon-Amorphene	1495	0.09%	
49.313	gamma-Murolene	1510	0.03%	
49.624	delta-Cadinene	1515	0.11%	
50.707	alpha-Cadinene	1533	0.02%	
51.589	Unidentified	1548	0.02%	
52.169	cis-Nerolidol	1558	0.1%	
53.058	Spathulenol	1573	0.09%	
53.369	Caryophyllene oxide	1578	0.08%	
53.590	Globulol	1582	0.04%	
56.282	Unidentified	1629	0.05%	
56.823	epi-alpha-Cadinol	1639	0.04%	
56.929	epi-alpha-Murolol	1640	0.05%	
57.076	Unidentified	1643	0.03%	
57.566	Unidentified	1652	0.17%	
58.406	Unidentified	1667	0.02%	
58.620	Unidentified	1671	0.02%	
62.085	Unidentified	1734	0.03%	
72.812	meta-Camphorene	1943	0.04%	
74.529	para-Camphorene	1979	0.01%	

Ret. Time	Component	Ret. Idx.	Conc. %
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Total Identified Compounds **98.6 %**

