



Sample & Analysis Information

Sample Information

Sample Name: Rosemary Essential Oil**Botanical Name:** Rosmarinus officinalis**Lot Number:** 13298**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Spain**Analysis Date:** 11/8/2024**Date of Distillation:** November 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

+8.52

1.46910

0.90280

Ret. Time	Component	Ret. Idx.	Conc. %	
9.731	Unidentified	878	0.06%	
10.681	Unidentified	902	0.02%	
10.759	Bornylene	904	0.02%	
10.998	Unidentified	908	0.01%	
11.528	Hashishene	918	0.01%	
11.650	Tricyclene	920	1.37%	
11.802	alpha-Thujene	923	0.23%	
12.235	alpha-Pinene	930	21.66%	
12.525	Unidentified	936	0.05%	
13.003	alpha-Fenchene	944	0.2%	
13.105	Camphene	946	8.11%	
13.296	Thuja-2,4(10)-diene	950	0.03%	
14.356	Sabinene	969	0.02%	
14.658	beta-Pinene	975	3.88%	
14.870	Unidentified	978	0.01%	
14.973	Unidentified	980	0.02%	
15.044	Unidentified	982	0.03%	
15.152	Unidentified	984	0.01%	
15.290	Myrcene	986	3.03%	
15.515	Unidentified	990	0.01%	
15.729	Unidentified	994	0.01%	
15.971	Unidentified	998	0.01%	
16.193	Pseudolimonene	1002	0.17%	
16.338	alpha-Phellandrene	1004	0.19%	
16.483	delta-3-Carene	1007	0.02%	
16.998	alpha-Terpinene	1014	0.32%	
17.161	Unidentified	1017	0.01%	
17.478	para-Cymene	1022	2.1%	
17.784	Limonene	1026	4.12%	IFRA
17.895	beta-Phellandrene	1028	0.31%	
17.973	1,8-Cineole	1029	20.21%	
18.171	cis-beta-Ocimene	1032	0.03%	
18.861	trans-beta-Ocimene	1043	0.01%	
19.636	gamma-Terpinene	1055	0.41%	
20.407	trans-4-Thujanol	1067	0.02%	
21.441	Terpinolene	1082	0.14%	
21.636	Fenchone	1085	0.01%	
21.760	para-Cymenene	1087	0.02%	
22.386	Linalool	1097	1.36%	IFRA
23.031	Unidentified	1106	0.01%	

Ret. Time	Component	Ret. Idx.	Conc. %	
23.704	endo-Fenchol	1116	0.02%	
24.237	Unidentified	1124	0.01%	
25.194	trans-Pinocarveol	1138	0.02%	
25.664	Camphor	1145	19.56%	
26.159	trans-beta-Terpineol	1152	0.02%	
26.404	Unidentified	1155	0.01%	
26.539	trans-Pinocamphone	1157	0.01%	
26.650	Unidentified	1159	0.01%	
26.727	Unidentified	1160	0.02%	
27.216	delta-Terpineol	1167	0.12%	
27.324	Borneol	1169	2.38%	
27.606	Unidentified	1173	0.01%	
27.786	Unidentified	1175	0.01%	
27.927	Terpinen-4-ol	1178	0.28%	
28.359	para-Cymen-8-ol	1184	0.02%	
28.941	alpha-Terpineol	1192	3.42%	
29.468	Unidentified	1200	0.01%	
29.723	Verbenone	1204	1.09%	
32.695	Geraniol	1247	0.01%	IFRA
34.989	Bornyl acetate	1281	1.88%	
35.155	Unidentified	1283	0.01%	
38.529	Unidentified	1334	0.01%	
39.427	Unidentified	1348	0.01%	
40.621	alpha-Copaene	1366	0.01%	
41.028	Unidentified	1372	0.01%	
43.837	beta-Caryophyllene	1416	2.57%	
44.356	Unidentified	1424	0.01%	
46.075	alpha-Humulene	1452	0.19%	
47.287	Unidentified	1471	0.01%	
49.328	beta-Bisabolene	1504	0.02%	
49.634	Unidentified	1509	0.01%	
49.944	Unidentified	1514	0.01%	
53.696	Caryophyllene oxide	1578	0.01%	

Total Identified Compounds **99.63 %**

TIC

12,915,048

