



Sample & Analysis Information

Sample Information

Sample Name: *ROSOFF1**Botanical Name:** Rosmarinus officinalis**Lot Number:** M0J0811K**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Spain**Analysis Date:** 8/13/2025**Manufacture Date:** August 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

+7.76

1.46879

0.90165

Ret. Time	Component	Ret. Idx.	Conc. %	
10.150	Cyclofenchene	873	0.06%	
11.133	Bornylene isomer	897	0.02%	
11.208	Bornylene isomer	899	0.02%	
11.453	Unidentified	904	0.01%	
12.007	Hashishene	914	0.02%	
12.130	Tricyclene	916	1.39%	
12.280	alpha-Thujene	918	0.15%	
12.740	alpha-Pinene	926	21.35%	
13.032	beta-Fenchene	932	0.05%	
13.521	alpha-Fenchene	940	0.2%	
13.632	Camphene	942	8.17%	
13.815	Thuja-2,4(10)diene	945	0.02%	
14.551	Unidentified	958	0%	
14.895	Sabinene	964	0.03%	
15.212	beta-Pinene	970	4.22%	
15.523	Camphene isomer	975	0.01%	
15.589	3-Octanone	977	0.02%	
15.836	Myrcene	981	3.12%	
16.070	Unidentified	985	0.01%	
16.290	3-Octanol	989	0.01%	
16.537	para-Menth-1-ene	993	0.01%	
16.758	Pseudolimonene	997	0.17%	
16.906	alpha-Phellandrene	1000	0.13%	
17.055	delta-3-Carene	1002	0.08%	
17.574	alpha-Terpinene	1010	0.22%	
17.726	ortho-Cymene	1012	0%	
18.062	para-Cymene	1017	2.18%	
18.385	Limonene	1022	4.45%	IFRA
18.500	beta-Phellandrene	1024	0.1%	
18.609	1,8-Cineole	1025	21.85%	
18.753	cis-beta-Ocimene	1027	0.03%	
19.449	trans-beta-Ocimene	1038	0.02%	
20.247	gamma-Terpinene	1050	0.36%	
21.049	trans-Sabinene hydrate	1062	0.02%	
22.066	Terpinolene	1077	0.15%	
22.298	Fenchone	1081	0.01%	
22.378	para-Cymenene	1082	0.02%	
23.016	Linalool	1091	1.4%	IFRA
24.376	endo-Fenchol	1111	0.03%	
24.892	alpha-Campholenal	1119	0.01%	

Ret. Time	Component	Ret. Idx.	Conc. %	
25.043	Unidentified	1121	0.01%	
25.173	Unidentified	1123	0.01%	
25.886	trans-Pinocarveol	1133	0.02%	
26.382	Camphor	1140	17.95%	
26.867	trans-beta-Terpineol	1147	0.03%	
27.230	trans-Pinocamphone	1152	0.01%	
27.353	Pinocarvone	1154	0.01%	
27.433	Isoborneol	1155	0.02%	
27.908	delta-Terpineol	1162	0.14%	
28.031	Borneol	1164	2.12%	
28.318	Isopinocamphone	1168	0.01%	
28.476	Unidentified	1170	0.01%	
28.623	Terpinen-4-ol	1172	0.31%	
29.046	para-Cymen-8-ol	1178	0.02%	
29.644	alpha-Terpineol	1187	3.31%	
29.835	trans-Anethole	1190	0.01%	
30.162	Unidentified	1194	0.01%	
30.437	Verbenone	1198	1.04%	
31.271	Unidentified	1210	0.01%	
31.775	Citronellol	1218	0.01%	IFRA
31.934	Bornyl formate	1220	0.01%	
33.389	Geraniol	1241	0.01%	IFRA
35.474	Carvacrol	1271	0.01%	
35.739	Bornyl acetate	1275	1.85%	
35.898	Isobornyl acetate	1277	0.02%	
36.622	Unidentified	1288	0.01%	
38.316	Myrtenyl acetate	1313	0.01%	
39.285	Pulespenone	1328	0.01%	
39.947	alpha-Cubebene	1338	0.01%	
40.150	Eugenol	1341	0.02%	IFRA
41.401	alpha-Ylangene	1360	0.03%	
41.821	alpha-Copaene	1366	0.08%	
41.942	Geranyl acetate	1368	0.01%	
43.327	Methyleugenol	1389	0.01%	IFRA
43.687	Unidentified	1394	0.01%	
44.647	beta-Caryophyllene	1409	2.27%	
45.282	beta-Copaene	1420	0%	
45.822	Aromandendrene	1428	0.01%	
46.509	Humulen-(v1)	1439	0%	
46.892	alpha-Humulene	1445	0.17%	

Ret. Time	Component	Ret. Idx.	Conc. %	
47.910	cis-Murrola-4(14),5-diene	1461	0.01%	
48.096	gamma-Murolene	1464	0.05%	
48.360	alpha-Amorphene	1469	0.01%	
48.974	beta-Selinene	1478	0.01%	
49.182	trans-Murrola-4(14),5-diene	1482	0%	
49.416	alpha-Selinene	1485	0.01%	
49.557	alpha-Murolene	1488	0.02%	
50.132	beta-Bisabolene	1497	0.01%	
50.440	gamma-Cadinene	1502	0.03%	
50.744	delta-Cadinene	1507	0.07%	
50.935	cis-Calamenene	1510	0.01%	
52.101	alpha-Calacorene	1530	0.01%	
54.524	Caryophyllene oxide	1570	0.02%	
74.015	meta-Camphorene	1931	0.02%	
75.742	para-Camphorene	1967	0.01%	

Total Identified Compounds **99.93 %**

TIC
29,213,336

