

Thyme (ct. Geraniol) EO

GC/MS Report

Item	Lot
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	THYG323EO739
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Thymus vulgaris

Sample Information

Sample Name: Thyme (ct. Geraniol) EO

Botanical Name: *Thymus vulgaris*

Lot Number: THYG323EO739

Production Method: Steam distilled

Sample Type: Essential Oil

Country of Origin: France

Analysis Date: 8/27/2026

Distillation Date: March 2026

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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-.40
Refractive Index @20°C	USP[831]	1.47252
Specific Gravity @20°C	USP[841]	0.90711

Ret. Time	Component	Ret. Idx.	Conc. %	
3.750	Unidentified	583	0.02%	
5.408	Isopentyl alcohol	727	0%	
9.530	Unidentified	861	0%	
9.599	Unidentified	863	0.01%	
10.256	Cyclofenchene	879	0.01%	
12.259	Tricyclene	921	0.18%	
12.404	alpha-Thujene	923	0.04%	
12.828	alpha-Pinene	931	1.25%	
13.662	alpha-Fenchene	945	0.03%	
13.762	Camphene	947	0.95%	
15.048	Sabinene	970	0.33%	
15.368	beta-Pinene	975	0.04%	
15.679	6-Methyl hept-5-en-2-one	981	0.09%	
15.992	Myrcene	987	0.23%	
17.082	alpha-Phellandrene	1005	0.01%	
17.737	alpha-Terpinene	1015	0.23%	
18.225	para-Cymene	1022	2.07%	
18.531	Limonene	1027	0.22%	IFRA
18.645	beta-Phellandrene	1028	0.03%	
18.740	1,8-Cineole	1030	0.17%	
18.924	cis-beta-Ocimene	1033	0.12%	
19.622	trans-beta-Ocimene	1043	0.33%	
20.438	gamma-Terpinene	1055	0.66%	
21.246	trans-Sabinene hydrate	1068	0.19%	
22.270	Terpinolene	1083	0.09%	
22.325	trans-Linalool oxide (furanoid)	1084	0.01%	
23.226	Linalool	1097	2.38%	IFRA
23.339	cis-Sabinene hydrate	1099	0.79%	
24.962	cis-para-Menth-2-en-1-ol	1122	0.06%	
26.204	trans-para-Menth-2-en-1-ol	1140	0.03%	
26.557	Camphor	1145	1.02%	
26.869	Citronellal	1150	0.01%	IFRA
28.058	Isoborneol	1167	0.02%	
28.160	delta-Terpineol	1168	0.01%	
28.278	Borneol	1170	0.04%	
28.877	Terpinen-4-ol	1179	4.34%	
29.281	para-Cymen-8-ol	1184	0.01%	
29.869	alpha-Terpineol	1193	0.94%	
30.818	trans-Piperitol	1207	0.01%	
31.844	Nerol	1222	0.1%	

Ret. Time	Component	Ret. Idx.	Conc. %	
32.001	Citronellol	1224	0.11%	IFRA
32.199	Thymol methyl ether	1227	0.03%	
32.794	Neral	1235	0.52%	IFRA
33.706	Geraniol	1249	27.19%	IFRA
34.824	Geranial	1265	1.21%	IFRA
35.295	cis-Ascaridol glycol	1272	0.01%	
35.987	Bornyl acetate	1282	0.52%	
36.153	Isobornyl acetate	1284	0.03%	
36.311	Thymol	1287	1.13%	
36.875	Geranyl formate	1295	0.93%	
38.446	Unidentified	1319	0.01%	
39.176	Unidentified	1330	0.02%	
40.157	alpha-Cubebene	1345	0.04%	
40.290	Citronellyl acetate	1347	0.02%	IFRA
40.393	Eugenol	1348	0.08%	IFRA
40.876	Neryl acetate	1356	0.67%	
41.601	Unidentified	1367	0.01%	
41.912	Unidentified	1371	0.06%	
42.065	alpha-Copaene	1374	0.1%	
42.236	Geranyl acetate	1376	39.27%	
42.940	beta-Elementene	1387	0.04%	
43.924	cis-beta-Caryophyllene	1402	0.02%	
44.888	beta-Caryophyllene	1417	7.13%	
46.046	beta-Copaene	1436	0.02%	
47.130	alpha-Humulene	1453	0.49%	
47.933	Geranyl propanoate	1466	0.97%	
48.824	Unidentified	1480	0.05%	
49.052	Unidentified	1484	0.03%	
49.602	Bicyclogermacrene	1493	0.02%	
50.961	Unidentified	1515	0.01%	
51.042	(-)-alpha-Panasinsen	1516	0.01%	
51.369	Citronellyl butyrate	1522	0.18%	
51.810	Neryl butyrate	1529	0.02%	
52.916	Unidentified	1548	0.03%	
53.188	Geranyl butyrate	1552	0.38%	
53.495	trans-Nerolidol	1558	0.04%	
54.770	Caryophyllene oxide	1579	1.02%	
56.387	Humulene epoxide II	1607	0.03%	
58.972	Unidentified	1652	0.02%	
60.054	Unidentified	1672	0.02%	

Ret. Time	Component	Ret. Idx.	Conc. %	
62.241	(2E,6E)-Farnesol	1711	0.1%	IFRA
64.089	Geraniol hexanoate	1745	0.21%	
68.471	(2E,6E)-Farnesyl acetate	1828	0.03%	
70.871	Unidentified	1875	0.02%	
71.322	Geranyl linalool isomer	1884	0.01%	
74.083	Geranyl octanoate	1940	0.03%	
80.316	Geranyl linalool isomer	2071	0.02%	

Total Identified Compounds **99.67 %**

TIC
15,262,829

