

## Sample Information

**Sample Name:** Oregano EO  
**Botanical Name:** Origanum vulgare  
**Lot Number:** TUP32-PK  
**Production Method:** Steam distilled

**Sample Type:** EO - Single  
**Country of Origin:** Turkey  
**Analysis Date:** 7/30/2024  
**Manufacture Date:** July 2024

**Inst. ID:** Shimadzu GCMS-QP2010Ultra  
**Injection Type:** Split  
**Split Ratio:** 24.4

## GC/MS

**Column Type:** ZB-5  
**Injection Volume:** 0.1 µL  
**Temperature Program:** 2C/min

## ANALYSIS

Optical Rotation @20°C  
Refractive Index @20°C  
Specific Gravity @20°C

## Physical Data

METHOD	RESULTS
USP[781]	-.76
USP[831]	1.51236
USP[841]	0.95248

## GC/MS Report Components

Ret. Time	Component	Ret. Idx.	Conc. %
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Ret. Time	Component	Ret. Idx.	Conc. %	
35.233	trans-Anethole	1284	0.02%	
35.495	Thymol	1288	3.11%	
36.246	Carvacrol	1299	69.48%	
37.057	Unidentified	1312	0.06%	
37.563	Unidentified	1319	0.01%	
39.529	Eugenol	1349	0.01%	IFRA
40.376	Carvacryl acetate	1362	0.06%	
41.137	alpha-Copaene	1374	0.01%	
41.287	Geranyl acetate	1376	0.01%	
42.688	Methyleugenol	1398	0.02%	IFRA
43.939	beta-Caryophyllene	1417	3.01%	
44.790	trans-alpha-Bergamotene	1431	0.04%	
44.985	Unidentified	1434	0.01%	
45.117	Aromadendrene	1436	0.06%	
46.174	alpha-Humulene	1453	0.17%	
47.406	Isogermacrene D	1473	0.01%	
47.585	Unidentified	1476	0.02%	
48.393	Viridiflorene	1489	0.04%	
49.423	beta-Bisabolene	1506	0.75%	
49.729	gamma-Cadinene	1511	0.04%	
50.038	delta-Cadinene	1516	0.03%	
51.380	Unidentified	1539	0.01%	
53.481	Spathulenol	1574	0.05%	
53.789	Caryophyllene oxide	1579	0.11%	
55.408	Humulene epoxide II	1607	0.02%	
57.239	tau-Cadinol	1639	0.05%	
57.999	Unidentified	1653	0.01%	
70.612	Unidentified	1890	0.01%	
71.833	Unidentified	1915	0.05%	

Total Identified Compounds **99.81 %**

