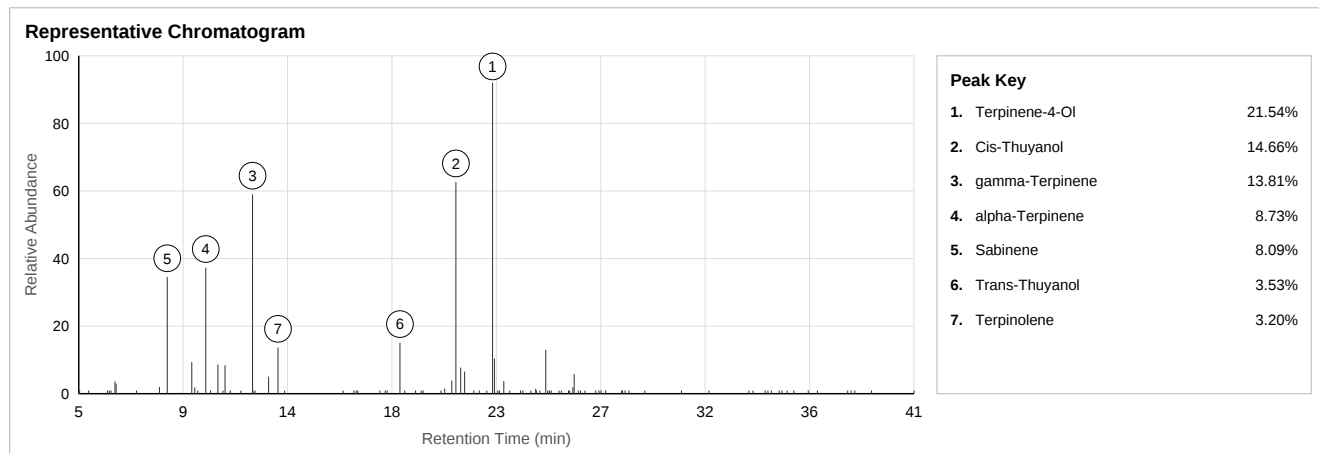


GC-MS Composition Profile

Product Name	Marjoram Sweet
Botanical Name	Origanum majorana
INCI Name	Origanum Majorana Flower Oil
Country of Origin	Hungary
CAS Number	8015-01-8 / 84082-58-6
Analysis Date	July 30, 2025
Profile Type	Typical / representative composition profile; natural lots may vary.

Representative Chromatogram



Peak Composition Table

Peak	RT (min)	Compound	Typical %
1	4.56	Butanal, 2-Methyl-	0.01
2	4.60	Isovaleraldehyde	0.01
3	4.99	Furan, 2-Ethyl-	0.01
4	5.81	Methyl 2-Methylbutyrate	0.04
5	5.89	Tricyclene	0.01
6	5.97	Methyl Isovalerate	0.02
7	6.14	alpha-Pinene	0.85
8	6.19	alpha-Thuyene	0.69
9	7.08	Camphene	0.03
10	8.08	beta-Pinene	0.47
11	8.42	Sabinene	8.09
12	9.49	beta-Myrcene	2.19
13	9.62	alpha-Phellandrene	0.43
14	9.75	Psi-Limonene	0.07
15	10.10	alpha-Terpinene	8.73
16	10.31	1,8-Cineole, 2,3-Dehydro-	0.01
17	10.63	Limonene	2.02
18	10.85	1,8-Cineole	0.16
19	10.94	beta-Phellandrene	1.97
20	11.17	2-Hexenal	0.02
21	11.63	Cis-beta-Ocimene	0.03
22	12.14	gamma-Terpinene	13.81
23	12.16	Trans-beta-Ocimene	0.05
24	12.25	3-Octanone	0.04
25	12.84	P-Cymene	1.18
26	13.25	Terpinolene	3.20
27	13.54	Tridecane	0.01
28	16.09	3-Hexen-1-Ol	0.02
29	16.56	Nonanal	0.01
30	16.66	Cosmene Isomer	0.02

Peak	RT (min)	Compound	Typical %
31	16.73	2-Hexen-1-ol	0.01
32	17.69	alpha,P-Dimethylstyrene	0.03
33	17.93	Menthatriene Isomer	0.02
34	18.01	Alkan Compound	0.02
35	18.57	Trans-Thuyanol	3.53
36	18.78	Epoxy-4,8-Terpinolene	0.03
37	19.25	Delta-Elementene	0.05
38	19.50	alpha-Campholenal	0.02
39	19.58	Isomenthone	0.01
40	20.36	Compound Mw=152	0.03
41	20.52	E-Solanone	0.35
42	20.83	Linalool	0.91
43	21.01	Cis-Thuyanol	14.66
44	21.22	Linalyl Acetate	1.81
45	21.39	Trans-P-Menth-2-En-1-ol	1.53
46	21.79	Pinocarvone	0.02
47	22.03	Bornyl Acetate	0.03
48	22.36	beta-Elementene	0.01
49	22.61	Terpinene-4-ol	21.54
50	22.69	beta-Caryophyllene	2.44
51	22.84	Cis-Dihydrocarvone	0.13
52	22.91	Terpenic Compound	0.18
53	23.10	Cis-P-Menth-2-En-1-ol	0.88
54	23.36	Trans-Dihydrocarvone	0.07
55	23.83	Trans-Pinocarvyl Acetate	0.03
56	23.93	Trans-Pinocarveol	0.07
57	24.28	Farnesene Isomer	0.02
58	24.49	Cis-Piperitol	0.34
59	24.52	alpha-Humulene	0.11
60	24.67	Lavandulal	0.05
61	24.93	alpha-Terpineol	3.03
62	25.02	Terpenyl Acetate	0.02
63	25.09	Borneol	0.05
64	25.17	Ledene	0.04
65	25.51	Germacrene D	0.02
66	25.61	Neryl Acetate	0.04
67	25.92	Piperitone	0.01
68	25.97	Carvone	0.01
69	26.11	Trans-Piperitol	0.44
70	26.17	Bicyclogermacrene	1.35
71	26.35	Geranyl Acetate	0.05
72	26.45	Citronellol	0.06
73	26.64	Delta-Cadinene	0.02
74	27.11	Methyl Salicylate	0.02
75	27.25	Campholenol	0.03
76	27.34	Nerol	0.04
77	27.54	Aromatic Compound	0.03
78	28.24	Trans-Anethol	0.03
79	28.28	Trans-Carveol	0.02
80	28.39	Geraniol	0.07
81	28.56	P-Cymene-8-ol	0.03
82	29.25	Aromatic Compound Mw=194	0.01
83	30.85	Aliphatic Ester	0.01
84	32.05	Caryophyllene Oxide	0.06
85	33.79	Cis-1,2-Dihydroxy-P-Menth-2-Ene	0.09
86	33.97	Cyclooctanone	0.04
87	34.50	10-Epi-gamma-Eudesmol	0.02
88	34.62	Pentadecanone, Trimethyl-	0.01
89	34.77	Spathulenol	0.06
90	35.11	Trans-1,2-Dihydroxy-P-Menth-2-Ene	0.04

Peak	RT (min)	Compound	Typical %
91	35.23	Sesquiterpenol	0.02
92	35.46	Sorbic Acid	0.08
93	35.75	Thymol	0.01
94	36.38	Carvacrol	0.03
95	36.78	beta-Nootkatol	0.05
96	38.10	Aromatic Compound Mw=178	0.01
97	38.25	Caryophylla-2,6-Dien-5-alpha-ol	0.01
98	38.41	Sesquiterpenol	0.02
99	39.14	Sandaracopimaradiene	0.02
100	40.99	Aromatic Compound	0.02

Percentages are presented as a typical composition profile prepared from current reliable source data. Small analytical and natural lot-to-lot variation is expected.