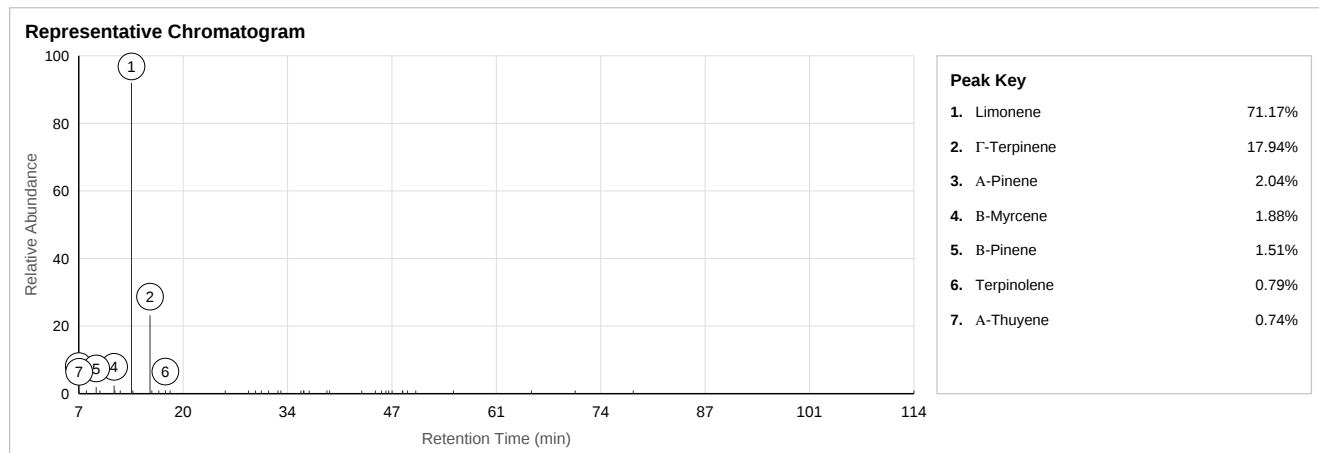


GC-MS Composition Profile

Product Name	Mandarin
Botanical Name	Citrus reticulata
INCI Name	Citrus Nobilis Peel Oil
Country of Origin	Italy
CAS Number	84929-38-4 /8008-31-9
Analysis Date	November 28, 2025
Profile Type	Typical / representative composition profile; natural lots may vary.

Representative Chromatogram



Peak Composition Table

Peak	RT (min)	Compound	Typical %
1	7.00	A-Pinene	2.04
2	7.05	A-Thuyene	0.74
3	7.98	Camphene	0.01
4	9.24	B-Pinene	1.51
5	9.72	Sabinene	0.25
6	11.54	B-Myrcene	1.88
7	11.64	A-Phellandrene	0.07
8	12.33	A-Terpinene	0.37
9	13.77	Limonene	71.17
10	13.94	B-Phellandrene	0.25
11	16.15	Γ -Terpinene	17.94
12	16.38	Trans-B-Ocimene	0.03
13	17.27	P-Cymene	0.58
14	18.12	Terpinolene	0.79
15	18.73	Octanal	0.06
16	25.81	Nonanal	0.02
17	28.80	Limonene Cis-1,2-Epoide	0.01
18	29.68	Limonene Trans-1,2-Epoide	0.01
19	30.44	Trans-Thuyanol	0.04
20	31.37	Citronellal	0.02
21	32.57	A-Copaene	0.03
22	32.95	Decanal	0.04
23	35.52	B1-Cubebene	0.02
24	35.85	Cis-Thuyanol	0.07
25	35.91	Linalool	0.13
26	36.58	1-Octanol	0.01
27	38.87	B-Caryophyllene	0.12
28	39.21	Terpinene-4-Ol	0.04
29	43.33	A-Humulene	0.01
30	45.08	A-Terpineol	0.22

Peak	RT (min)	Compound	Typical %
31	45.88	Germacrene D	0.02
32	46.43	Dodecanal	0.02
33	46.79	A-Selinene	0.07
34	47.23	Bicyclogermacrene	0.02
35	48.55	E,E-A-Farnesene	0.21
36	48.60	Δ -Cadinene	0.03
37	49.21	Citronellol	0.03
38	50.27	Perillaldehyde	0.04
39	55.10	2-Dodecenal	0.02
40	65.12	Methyl, N-Methyl-Anthranilate	0.37
41	70.74	Thymol	0.05
42	78.19	A-Sinensal	0.25
43	114.23	Aromatic Compound	0.05

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