

GC-MS Reference Composition Profile

Product Name	Bergamot Calabrian
Botanical Name	Citrus bergamia
INCI Name	Citrus Aurantium Bergamia Peel Oil
Country of Origin	Italy
CAS Number	89957-91-5
EC / EINECS Number	289-612-9
Lot Number	5057018
Analytical method	GC-MS reference profile: Constituent percentages and retention times as reported.
Profile Type	Representative expressed Bergamot composition. Shared peaks remain combined. Printed total 99.92%; displayed rounded entries sum to 99.94%. Natural batches vary.

Composition Overview

Reference constituent distribution

Composition graphic only - not an instrument chromatogram.

LIMONENE		40.93 %
LINALYL ACETATE		25.59 %
LINALOOL		14.47 %
beta-PINENE		6.40 %
gamma-TERPINENE		6.12 %
alpha-PINENE		1.05 %
SABINENE		1.04 %

Top Compounds

Compound	%
LIMONENE	40.93
LINALYL ACETATE	25.59
LINALOOL	14.47
beta-PINENE	6.40
gamma-TERPINENE	6.12
alpha-PINENE	1.05
SABINENE	1.04

Composition Table

No.	RT (min)*	Compound	% / Range
1	6.38	alpha-PINENE	1.05
2	6.43	alpha-THUYENE	0.25
3	7.23	CAMPHERE	0.03
4	8.28	beta-PINENE	6.40
5	8.64	SABINENE	1.04
6	10.01	beta-MYRCENE	0.99
7	10.13	alpha-PHELLANDRENE	0.04
8	10.66	alpha-TERPINENE	0.10
9	11.62	LIMONENE	40.93
10	11.86	beta-PHELLANDRENE / 1,8-CINEOLE (shared peak)	0.18
11	12.99	cis-beta-OCIMENE	0.04
12	13.51	gamma-TERPINENE	6.12
13	13.78	trans-beta-OCIMENE	0.11
14	14.55	p-CYMENE	0.19
15	15.24	TERPINOLENE	0.22
16	25.33	LINALOOL cis-OXIDE	0.02

No.	RT (min)*	Compound	% / Range
17	27.59	LINALOOL trans-OXIDE	0.03
18	28.59	OCTYL ACETATE	0.02
19	32.55	E-SOLANONE	0.02
20	34.92	LINALOOL	14.47
21	35.73	LINALYL ACETATE	25.59
22	36.62	LINALOOL cis-OXIDE ACETATE	0.05
23	37.89	alpha-trans-BERGAMOTENE	0.21
24	38.19	beta-CARYOPHYLLENE	0.18
25	39.14	LINALOOL trans-OXIDE ACETATE	0.06
26	43.39	E-beta-FARNESENE	0.02
27	43.90	NERAL / SESQUITERPENE (shared peak)	0.05
28	44.39	TERPENYL ACETATE	0.03
29	44.65	alpha-TERPINEOL	0.03
30	45.44	SESQUITERPENE	0.02
31	46.06	NERYL ACETATE	0.40
32	46.21	beta-BISABOLENE	0.46
33	46.46	GERANIAL	0.07
34	47.42	GERANYL ACETATE	0.44
35	57.76	SPATHULENOL	0.02
36	67.74	SESQUITERPENIC COMPOUND	0.01
37	92.48	LIMETTINE	0.03
38	103.64	BERGAPTENE	0.02

* Reference retention times are reproduced only when supplied in the source; no retention time is estimated. Reference rows do not establish batch composition.