



Lavender Essential Oil Analysis

Product:	Lavender Essential Oil High Altitude Bulgaria
INCI Name:	Lavandula Angustifolia Oil
Country of Origin:	Bulgaria
Botanical part:	Flower/Leaf
Botanical Name:	<i>Lavandula angustifolia</i> P. Miller
Botanical Synonyms:	<i>Lavandula officinalis</i> Chaix in Villars, <i>Lavandula vera</i> DC
CAS Number:	8000-28-0 / 90063-37-9

Characteristics

	Requirement	Result
Appearance:	Clear liquid	Conforms
Colour:	Colourless to light yellow	Conforms
Odour:	Sweet, balsamic, herbaceous	Conforms
Relative Density (gr/ml) @ 20°C:	0.875 – 0.890	0.877
Refractive Index @ 20° C:	1.457 – 1.467	1.463

GC/MS/FID Analysis (%):

1.	LINALOOL	28.66
2.	LINALYL ACETATE	28.11
3.	cis-beta-OCIMENE	7.83
4.	TERPINENE-4-OL	5.24
5.	trans-beta-OCIMENE	4.57
6.	LAVANDULYL ACETATE	3.89
7.	beta-CARYOPHYLLENE	3.49
8.	E-beta-FARNESENE	3.02
9.	alpha-TERPINEOL	1.59
10.	beta-MYRCENE	0.89
11.	GERANYL ACETATE	0.89
12.	1-OCTEN-3-YL ACETATE	0.81
13.	LAVANDULOL	0.79
14.	1,8-CINEOLE	0.77
15.	3-OCTANONE	0.73
16.	GERANIOL	0.70
17.	HEXYL ACETATE	0.52
18.	BORNEOL	0.48
19.	NERYL ACETATE	0.48
20.	alpha-SANTALENE	0.38

21.	LIMONENE	0.35
22.	HEXYL BUTYRATE	0.29
23.	GERMACRENE D	0.29
24.	NEROL	0.29
25.	alpha-PINENE	0.25
26.	gamma-TERPINENE	0.25
27.	ALLO-OCIMENE	0.23
28.	CAMPHOR	0.21
29.	TERPINOLENE	0.15
30.	CAMPHENE	0.14
31.	1-OCTEN-3-OL	0.14
32.	BORNYL ACETATE	0.14
33.	p-CYMENE	0.13
34.	CARYOPHYLLENE OXIDE	0.13
35.	alpha-THUYENE	0.12
36.	alpha-trans-BERGAMOTENE	0.12
37.	alpha-HUMULENE	0.12
38.	trans-cis-1,3,5-UNDECATRIENE	0.11
39.	LINALOOL cis-OXIDE	0.11
40.	FARNESENE ISOMER	0.11
41.	BUTYL BUTYRATE	0.10
42.	LINALOOL trans-OXIDE	0.09
43.	HEXANE, 1-METHOXY-	0.08
44.	alpha-TERPINENE	0.08
45.	BERGAMOTENE ISOMER	0.08
46.	delta3-CARENE	0.07
47.	CRYPTONE	0.07
48.	alpha-PHELLANDRENE	0.06
49.	3-OCTANOL ACETATE	0.06
50.	HEXYL METHYLPROPIONATE	0.06
51.	CAMPHENILONE	0.06
52.	HEXYL CAPROATE	0.06
53.	Z-beta-FARNESENE	0.06
54.	CUMINAL	0.06
55.	m-CYMENE-8-OL	0.06
56.	1-HEXANOL	0.05
57.	beta-BISABOLENE	0.05
58.	p-CYMENE-8-OL	0.05
59.	trans-THUYANOL	0.04
60.	BERGAMOTENE ISOMER	0.04
61.	BORNYL FORMATE	0.04
62.	alpha-cis-BERGAMOTENE	0.04
63.	TERPINEN-4-YL ACETATE	0.04
64.	AROMADENDRENE	0.04
65.	HEXYL TIGLATE	0.04
66.	BUTYL ACETATE	0.03
67.	beta-PINENE	0.03
68.	SABINENE	0.03
69.	m-CYMENE	0.03
70.	HEXYL PROPIONATE	0.03

71.	3-OCTANOL	0.03
72.	ROSEFURAN	0.03
73.	BUTYL CAPROATE	0.03
74.	HEXYL 2-METHYLBUTYRATE	0.03
75.	cis-THUYANOL	0.03
76.	FARNESENE ISOMER	0.03
77.	alpha-PHOTOSANTALOL A	0.03
78.	T-CADINOL	0.03
79.	ISOVALERALDEHYDE	0.02
80.	TRICYCLEN	0.02
81.	PRENOL	0.02
82.	ALIPHATIC ESTER	0.02
83.	OCTYL ACETATE	0.02
84.	beta-BOURBONENE	0.02
85.	ALIPHATIC ESTER	0.02
86.	epi-beta-SANTALENE	0.02
87.	FARNESENE ISOMER	0.02
88.	COMPOUND Mw=150	0.02
89.	PELLANDRAL	0.02
90.	p-MENTHA-1(7),2-DIEN-8-OL	0.02
91.	PIPERITONE	0.02
92.	gamma-CADINENE	0.02
93.	ALIPHATIC ESTER	0.02
94.	trans-EPOXYLINALYL ACETATE	0.02
95.	trans-CARVEOL	0.02
96.	HUMULENE EPOXIDE	0.02
97.	ISOCARYOPHYLLENE OXIDE	0.02
98.	CUMINOL	0.02
99.	FURAN, 2-METHYL-	0.01
100.	BUTYL ISOBUTYRATE	0.01
101.	beta-PELLANDRENE	0.01
102.	alpha-PINENE OXIDE	0.01
103.	COMPOUND Mw=150	0.01
104.	ALIPHATIC ESTER	0.01
105.	MYROXIDE	0.01
106.	alpha-COPAENE	0.01
107.	ALIPHATIC ESTER	0.01
108.	SESQUITERPENE	0.01
109.	SESQUITERPENE	0.01
110.	SESQUITERPENE	0.01
111.	cis-EPOXYLINALYL ACETATE	0.01
112.	CALAMENENE	0.01
113.	3,7-OCTADIENE-2,6-DIOL, 2,6-DIMETHYL-	0.01
114.	NEROLIDOL	0.01
115.	TERPENIC COMPOUND	0.01
116.	GERANYL-alpha-TERPINENE	0.01
117.	COUMARIN	0.01
118.	FARNESYL ACETATE	0.01
	TOTAL	99.99