

**GC/MS & COA**  
**Kashmir Lavender Oil**

Product	Kashmir Lavender Essential Oil
Lot#	220508525
Appearance	Fluid Liquid
Manufacturing date	May 2022
Color	Colorless
Odor	Conforms to Standard

Physico-Chemical Properties:

<b>Properties</b>	<b>Results</b>
Refractive Index @ 20°C	1.4594
Specific Gravity @ 20°C	0.8845
Optical Rotation @ 20°C	-10.080

Peak	Compound	RT	Area Sum %
1	(2E)-Hexenal	4.949	0.05
2	cis-2-Hexenol	5.843	0.01
3	Tricyclene	6.303	0.02
4	$\alpha$ -Thujene	8.591	0.04
5	$\alpha$ -Pinene	8.853	0.1
6	Camphene	9.544	0.1
7	Sabinene	10.991	0.02
8	$\beta$ -Pinene	11.062	0.04
9	1-Octen-3-ol	11.553	0.19
10	3-Octanone	11.95	0.69
11	$\beta$ -Myrcene	12.209	0.49
12	3-Octanol	12.559	0.03
13	Butyl butylate	12.632	0.06
14	unknown	12.762	0.06
15	$\delta$ 3-carene	13.157	0.13
16	$\alpha$ -Terpinene	13.625	0.01
17	Hexyl acetate	13.802	0.22
18	unknown	14.019	0.02
19	p-Cymene	14.162	0.07
20	Limonene	14.402	0.72
21	1,8-Cineole	14.499	0.4
22	(Z)- $\beta$ -Ocimene	15.372	2.96
23	(E)- $\beta$ -Ocimene	16.065	2.83
24	$\gamma$ -Terpinene	16.598	0.05
25	cis-Sabinene hydrate	17.166	0.02
26	cis-Linalool oxide	17.638	0.04
27	$\alpha$ -Terpinolene	18.737	0.03
28	trans-Linalool oxide	18.85	0.04
29	Linalool	20.266	32.55
30	Hotrienol	20.345	0.04
31	1-Octen-3-yl-acetate	21.202	0.58
32	Allo-Ocimene	22.184	0.35
33	cis-Limonene oxide	22.423	0.01
34	Camphor	22.786	0.24
35	Hexyl isobutyrate	24.052	0.04
36	Borneol	24.625	0.32
37	Lavandulol	25.285	0.72
38	Terpinen-4-ol	25.667	1.06
39	Cryptone	26.33	0.12
40	p-Cymen-8-ol	26.544	0.05
41	$\alpha$ -Terpineol	26.847	0.43
42	Hexyl butyrate	27.629	0.12
43	unknown	29.334	0.03
44	Bornyl formate	29.734	0.02
45	Nerol	30.324	0.04

46	Hexyl isovalerate	30.767	0.06
47	Carvone	31.264	0.04
48	Linalyl acetate	33.167	42.87
49	unknown	33.731	0.08
50	Bornyl acetate	34.791	0.07
51	Lavandulyl acetate	35.881	3.07
52	unknown	39.731	0.04
53	unknown	40.664	0.03
54	unknown	40.932	0.02
55	Neryl acetate	41.74	0.21
56	$\beta$ -Bourbonene	42.343	0.01
57	Geranyl acetate + Hexyl hexanoate	43.334	0.32
58	7-epi-Sesquithujene	44.667	0.01
59	$\beta$ -Caryophyllene	45.024	5.06
60	$\alpha$ -Santalene	45.44	0.17
61	trans- $\alpha$ -Bergamotene	46.764	0.04
62	Sesquisabinene A	47.416	0.03
63	$\alpha$ -Humulene	47.582	0.05
64	Lavandulyl butyrate	48.495	0.05
65	(E)- $\beta$ -Farnesene	48.881	1.03
66	Germacrene D	49.826	0.21
67	trans- $\beta$ -Bergamotene	50.438	0.03
68	$\gamma$ -Cadinene	52.474	0.05
69	unknown	53.087	0.03
70	Isoaryophyllene epoxide B	55.066	0.02
71	Caryophyllene oxide	57.217	0.16
72	$\tau$ -Cadinol	61.68	0.04
73	p-Camphorene	66.932	0.03
	<b>Total identified</b>		<b>99.85%</b>

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