



JADE BLOOM

HEALTH, HEALING & HAPPINESS
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GC/MS & COA

Ajowan – 7845

January 15, 2019

ANALYSIS

Type: Essential oil

Source : Trachyspermum copticum

Analysis date: January 15, 2019

Physical aspect: Pale yellow to brownish yellow

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method.

Physico-Chemical Properties Specifications Results

Specific Gravity at 20° C 0.91 – 0.93 Complies

Refractive Index at 20° C 1.500 Complies

Optical Rotation at 20° C 0.0 – 5.0 Complies

Peak	RT (min)	Compound name	%
1	6,7	α -PINENE	0,21
2	6,8	α -THUYENE	0,09
3	7,7	CAMPHENE	0,06
4	8,9	β-PINENE	2,23
5	9,6	PINADIENE	0,02
6	9,9	p-MENTH-2-ENE	0,10
7	10,3	Δ 3-CARENE	0,02
8	10,8	β -MYRCENE	0,29
9	11,0	α -PHELLANDRENE	0,07
10	11,6	α -TERPINENE	0,26
11	12,0	2,3-DEHYDRO-1,8-CINEOLE	0,02
12	12,4	LIMONENE	0,29
13	12,8	β -PHELLANDRENE	0,36
14	13,4	3-HEPTANONE-2,6-DIMETHYL	0,02
15	15,0	γ-TERPINENE	46,56
16	15,2	3-OCTANONE	0,01
17	16,0	p-CYMENE	13,37
18	16,3	ISOTERPINOLENE	0,01
19	16,6	TERPINOLENE	0,10
20	18,8	CYCLOHEXANONE-3-METHYL	0,01
21	25,1	TERPENIC KETONE	0,08
22	25,4	α ,p-DIMETHYLSTYRENE	0,16
23	25,7	MENTHATRIENE ISOMER	0,05
24	27,3	ISOMENTHONE	0,02
25	30,1	LIMONENE Cis-EPOXIDE	0,06
26	30,2	COMPOUND Mw=152	0,06
27	30,5	COMPOUND Mw=152	0,02
28	32,5	LINALOOL	0,02
29	33,5	METHYL FURFURAL	0,01
30	33,7	BORNYL ACETATE	0,01

Peak	RT (min)	Compound name	%
31	34,1	TERPINENE-1-OL	0,01
32	35,4	β -CARYOPHYLLENE	0,01
33	35,7	TERPINENE-4-OL	0,05
34	37,5	6-METHYL-1-OCTANOL	0,01
35	38,0	ALIPHATIC ESTER	0,01
36	40,6	NERAL	0,02
37	41,1	TERPENYL ACETATE	0,01
38	41,4	α -TERPINEOL	0,03
39	41,8	TERPENIC ESTER	0,01
40	42,3	TERPENIC ESTER	0,01
41	42,6	β -SELINENE	0,04
42	42,9	PIPERITONE	0,01
43	45,8	CUMINAL	0,01
44	48,6	SABINOL ISOMER	0,01
45	49,5	m-CYMENE-8-OL	0,01
46	49,7	p-CYMENE-8-OL	0,02
47	56,8	CARVACRYL ACETATE	0,01
48	57,4	2-ALLYL-4-METHYLPHENOL	0,02
49	57,7	PHENOL, 2-METHYL	0,01
50	57,9	COMPOUND Mw=164	0,01
51	58,4	PROPOFOL	0,01
52	58,8	COMPOUND Mw=192	0,05
53	60,5	ALIPHATIC ESTER	0,01
54	60,9	METHYL DIISOPROPYLPHENOL ISOMER Mw=192	0,01
55	61,5	METHYLPARACRESOL	0,01
56	62,0	p-CRESOL	0,24
57	62,7	CUMINOL	0,01
58	63,4	PHENOL, 1-METHYLETHYL	0,01
59	63,5	AROMATIC ETHER	0,01
60	64,9	PHENOL, 2-ETHYL-5-METHYL	0,02

Peak	RT (min)	Compound name	%
61	66,1	ISOTHYMOL	0,15
62	67,0	THYMOL	34,13
63	67,7	ISOCARVACROL	0,06
64	68,2	CARVACROL	0,20
65	70,1	PHENOLIC COMPOUND	0,02
66	71,8	PHENOLIC COMPOUND	0,01
67	71,9	3-METHYL-4-ISOPROPYLPHENOL	0,03
68	73,0	METHYL DIISOPROPYLPHENOL ISOMER Mw=192	0,04
69	73,7	AROMATIC COMPOUND	0,02
70	76,2	PHENOLIC COMPOUND	0,01
71	78,7	AROMATIC COMPOUND	0,01
72	82,3	AROMATIC COMPOUND	0,01
		TOTAL	99,98

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