

Certificate of Analysis

Analysed essential oil : **Peppermint**

Analysis date : July, 17th 2017

Batch : 194ND705

Shelf life : August 2020

❖ General description

Essential oil	Peppermint	Origin	France
Latin name	Mentha piperita L.		

❖ Organoleptic characteristics

Appearance	Viscous liquid
Colour	Colorless
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.902	0.901	<	d	<	0.916
Refractive index	1.4600	1.4600	<	IR	<	1.4670
Optical rotation	-24.80°	-29°	<	$[\alpha]^{20}_d$	<	-10°

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite - Wax, 30 m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : polar column

Date : 2017-07-17

Software Version : 6.3.2.0646
Sample Name : HE Menthe Poivree 194ND705
Instrument Name : CLARUS 500
Rack/Vial : 0/2
Sample Amount : 1.000000
Cycle : 2

Date : 7/18/2017 10:50:05 AM
Data Acquisition Time : 7/17/2017 6:46:46 PM
Channel : B
Operator : Clemence
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2017\170717.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene<alpha>+thujene<alpha>	3.08	0.75
2		3.37	0.02
3		3.48	0.04
4	camphene	3.72	0.06
5	pinene <beta>	4.46	1.23
6	sabinene	4.76	0.38
7	myrcene	5.84	0.15
8	terpinene <alpha>	6.13	0.03
9	limonene	6.64	2.63
10	cineole <1.8>	6.85	5.28
11	ocimene<Z-beta>	7.83	0.13
12	terpinene <gamma>	8.00	0.09
13	ocimene<E-beta>	8.32	0.06
14	cymene <p>	8.72	0.39
15	terpinolene	9.15	0.04
16		9.81	0.06
17		10.16	0.04
18	octanol <3>	13.28	0.20
19	menthone	15.23	26.34
20	octen-3-ol<1>	15.34	0.09
21		15.62	0.28
22	menthofuran	15.98	0.87
23	menthone <iso>	16.12	3.93
24		16.38	0.09
25		16.77	0.08
26	bourbonene <beta>	17.38	0.32
27		17.86	0.28
28		17.96	0.12
29	linalool	18.94	0.24
30	menthyl acetate	19.22	4.72
31		19.37	0.21
32		19.66	0.10
33		19.93	0.10
34	caryophyllene<E>+elemene<beta>	20.09	2.16
35	menthol<neo>+terpinen-4-ol	20.47	3.66
36		20.74	0.21
37	pulegone + menthol <iso>	21.56	1.30
38		21.78	0.09
39	menthol	22.10	39.01
40		22.54	0.20
41	humulene <alpha>	22.66	0.17
42		22.91	0.48
43	farnesol<E-beta>	23.26	0.11
44		23.49	0.11
45	terpineol<alpha>+borneol	23.88	0.21
46	germacrene D	24.01	0.31
47	piperitone	24.27	0.77
48	bicyclogermacrene	24.60	0.24
49		25.20	0.04
50	cadinene <delta>	25.92	0.15
51		26.57	0.30
52		28.18	0.02
53		29.29	0.03
54		31.61	0.05
55		32.39	0.09
56	caryophyllene oxide	32.63	0.31
57		34.36	0.04

7/18/2017 10:50:05 AM Result:

pic #	Nom composant	TR [min]	Aire [%]
58		36.01	0.06
59	viridiflorol	36.17	0.08
60		37.38	0.11
61		38.64	0.04
62		39.61	0.05
63		40.46	0.12
64		41.49	0.06
65		42.28	0.05
			100.00

Laboratoire Rosier Davenne

Chromatogram

Sample Name : HE Menthe Poivrée 194ND705 Sample #: 194ND705 Page 1 of 1
FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Menthe\Menthe Poivrée (Piperita)\2017\menthe poivrée 170717.raw
Date : 7/18/2017 10:50:06 AM
Method : menthe poivrée.mth Time of Injection: 7/17/2017 6:46:46 PM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.12 mV High Point : 993.88 mV
Plot Offset: -47.12 mV Plot Scale: 1041.0 mV

