

Certificate of Analysis

Analysed essential oil : Pennyroyal

Analysis date : june, 16th 2015

Batch : 342OD506

Shelf life : January 2019

❖ General description

Essential oil	Pennyroyal	Origin	Marocco
Latin name	<i>Mentha pulegium</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Pale yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.935	0.930	<	d	<	0.944
Refractive index	1.4851	1.4800	<	IR	<	1.4900
Optical rotation	+19.15°	+15°	<	$[\alpha]^{20}_D$	<	+24°

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite - 1, 30 m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : non-polar column

Date : 2015-06-16

Software Version : 6.3.2.0646
Sample Name : Menthe pouliot 342OD506
Instrument Name : CLARUS 500
Rack/Vial : 0/1
Sample Amount : 1.000000
Cycle : 1

Date : 6/16/2016 10:21:37 AM
Data Acquisition Time : 6/15/2016 4:45:01 PM
Channel : A
Operator : Charlene
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2016\160615.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1	thujene <alpha>	9.38	0.13
2	pinene <alpha>	9.75	0.37
3	sabinene	11.17	0.09
4	pinene <beta>	11.32	0.31
5		11.88	0.60
6	octanol <3>	12.40	0.03
7	limonene + cineole <1.8>	13.53	1.07
8	mentha-3,8-diene <p>	15.25	0.20
9		15.94	0.04
10		17.61	0.04
11	menthone + isopulegol<neo>	18.48	3.04
12	menthone <iso>	18.87	0.70
13	menthol<neo>+isopulegon+dihydr	19.26	2.59
14		19.79	0.07
15		20.35	0.04
16		20.68	0.09
17		21.21	0.12
18		21.56	0.03
19	pulegone	22.38	84.37
20		22.56	1.24
21		22.86	0.21
22		23.25	0.20
23		24.02	0.20
24		24.26	0.16
25	piperitenone	26.27	2.48
26	caryophyllene <(E)>	30.64	0.49
27	humulene <alpha>	31.96	0.83
28	germacrene D	32.98	0.07
29	caryophyllene oxide	36.53	0.06
30		37.46	0.08
31		38.52	0.04
			100.00

Chromatogram

Sample Name : Menthe pouliot 342OD506 Sample #: 342OD506 Page 1 of 1
File Name : C:\Data\Colonne Apolaire\Huiles Essentielles\Menthe\Menthe Pouliot\2016\menthe pouliot 160615.raw
Date : 6/16/2016 10:21:38 AM
Method : menthe pouliot.mth Time of Injection: 6/15/2016 4:45:01 PM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.18 mV High Point : 993.88 mV
Plot Offset: -47.18 mV Plot Scale: 1041.1 mV

