

Certificate of Analysis

Analysed essential oil : Rosemary (camphor)

Analysis date : November, 19th 2015

Batch : 322LA501

Shelf life : May 2018

❖ General description

Essential oil	Rosemary (camphor)	Origin	Spain
Latin name	<i>Rosmarinus officinalis camphoriferum</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Pale yellow almost colourless
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.899	0.892	<	d	<	0.910
Refractive index	1.4679	1.4640	<	IR	<	1.4720
Optical rotation	-0.20°	-5°	<	$[\alpha]^{20}_d$	<	+8°

❖ 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 : 2015-11-19

Software Version : 6.2.0.0.0:B27
Sample Name : Romarin camphré
Instrument Name : CLARUS 500
Rack/Vial : 0/1
Sample Amount : 1.000000
Cycle : 1

Date : 19/11/2015 14:03:19
Data Acquisition Time : 18/11/2015 15:10:40
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2015\151118.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1		7.97	0.04
2		8.74	0.04
3	tricyclene	9.38	0.82
4	thujene <alpha>	9.55	0.06
5	pinene <alpha>	9.83	23.98
6	camphene	10.30	9.93
7	pinene <beta>	11.36	3.31
8		11.65	0.03
9	myrcene	12.00	3.68
10	phellandrene <alpha>	12.50	0.54
11	carene <delta-3>	12.85	0.23
12	terpinene <alpha>	13.05	0.58
13	cymene <p>	13.19	1.79
14	cineole <1.8> + limonene	13.53	21.58
15	ocimene <(Z)-beta>	13.94	0.11
16	terpinene <gamma>	14.85	1.04
17		15.92	0.06
18	terpinolene	16.17	0.40
19	linalool	16.49	0.83
20		17.05	0.10
21	camphor	17.95	19.16
22		18.40	0.16
23		18.74	0.11
24	pinocamphone <cis> + borneol	19.27	3.18
25	terpinen-4-ol	19.84	0.80
26	terpineol <alpha>	20.36	1.60
27	verbenone	20.66	1.39
28		22.26	0.08
29	bornyl acetate	24.64	1.31
30		28.87	0.08
31		29.08	0.06
32	caryophyllene <(E)>	30.72	2.31
33	humulene <alpha>	32.02	0.36
34		34.26	0.06
35		34.71	0.06
36		35.15	0.04
37	caryophyllene oxide	36.61	0.09
			100.00

Chromatogram

Sample Name : Romarin camphré Sample #: 322la501 Page 1 of 1
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Romarin\Camphré\2015\romarin camphré espagne 151118.raw
Date : 19/11/2015 14:03:20
Method : Romarin Camphré.mth Time of Injection: 18/11/2015 15:10:40
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.24 mV High Point : 993.88 mV
Plot Offset: -47.24 mV Plot Scale: 1041.1 mV

