

Certificate of Analysis

Analysed essential oil : Red Myrtle

Analysis date : January, 20th 2016

Batch : 019CL603

Shelf life : February 2019

❖ General description

Essential oil	Red Myrtle	Origin	Marocco
Latin name	<i>Myrtus communis</i> L.		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Orange brown
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.909	0.890	<	d	<	0.917
Refractive index	1.4638	1.4600	<	IR	<	1.4800
Optical rotation	+24.15°	+5°	<	$[\alpha]^{20}_d$	<	+25°

❖ 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 : 2016-01-20

Software Version : 6.2.0.0.0:B27
Sample Name : Myrte rouge
Instrument Name : CLARUS 500
Rack/Vial : 0/3
Sample Amount : 1.000000
Cycle : 3

Date : 20/01/2016 12:13:33
Data Acquisition Time : 19/01/2016 19:48:23
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2016\160119c.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1		5.13	0.05
2	thujene <alpha>	9.56	0.18
3	pinene <alpha>	9.84	21.27
4	sabinene	11.23	0.05
5	pinene <beta>	11.38	0.36
6	myrcene	11.97	0.11
7	isobutyl-2-methylbutanoate	12.28	0.19
8	carene <delta-3>	12.85	0.12
9	cymene <p>	13.19	0.46
10	limonene + cineole <1.8>	13.57	43.58
11	ocimene <E-beta>	14.41	0.11
12	terpinolene	16.23	0.14
13	linalool	16.49	2.51
14		16.77	0.24
15		17.84	0.06
16		18.07	0.08
17		18.37	0.10
18	borneol	19.23	0.09
19	terpinen-4-ol	19.83	0.33
20		20.16	0.13
21	terpineol <alpha>	20.36	3.24
22	myrtenol	20.65	0.98
23		22.25	0.12
24	geraniol	23.27	0.40
25		25.12	0.32
26	myrtenyl acetate	26.31	19.97
27		26.72	0.11
28		26.91	0.15
29		27.39	0.20
30	geranyl acetate	28.69	2.18
31	methyl eugenol	29.11	0.65
32		29.61	0.11
33	caryophyllene <(E)>	30.70	0.42
34	humulene <alpha>	32.06	0.35
35		33.26	0.06
36		33.66	0.05
37		33.88	0.11
38		34.05	0.13
39		34.22	0.06
40		34.90	0.04
41		35.72	0.10
42		37.48	0.06
			100.00

Chromatogram

Sample Name : Myrte rouge Sample #: 018qb604 Page 1 of 1
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Myrte\Rouge\2016\myrte rouge 160119.raw
Date : 20/01/2016 12:13:33
Method : myrte rouge.mth Time of Injection: 19/01/2016 19:48:23
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.26 mV High Point : 993.88 mV
Plot Offset: -47.26 mV Plot Scale: 1041.1 mV

