

Certificate of Analysis

Analysed essential oil : **Green Mandarin**

Analysis date : April, 12th 2017

Batch : 04PE702

Shelf life : September 2018

❖ General description

Essential oil	Green Mandarin	Origin	Argentina
Latin name	<i>Citrus reticulata</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Brown dark green
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.855	0,840	<	d	<	0,860
Refractive index	1.4741	1,465	<	IR	<	1,485
Optical rotation	ND	-	<	$[\alpha]^{20}_D$	<	-
Peroxyde index	3,4 mmol/L	0 mmol/L	<	IP	<	20 mmol/L

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite – WAX m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : polar column

Date : 2017-04-12

Software Version : 6.3.2.0646
Sample Name : HE Mandarine Verte 074PE702
Instrument Name : CLARUS 500
Rack/Vial : 0/6
Sample Amount : 1.000000
Cycle : 6

Date : 4/12/2017 9:37:24 AM
Data Acquisition Time : 4/11/2017 11:54:47 PM
Channel : B
Operator : Clemence
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2017\170411.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene <alpha>	3.10	1.98
2	thujene <alpha>	3.17	0.71
3		3.73	0.02
4	pinene <beta>	4.48	1.34
5	sabinene	4.78	0.33
6	phellandrene <alpha>	5.79	0.06
7	myrcene	5.88	1.84
8	terpinene <alpha>	6.17	0.33
9	limonene	6.81	74.09
10	phellandrene <beta>	6.92	0.23
11	terpinene <gamma>	8.11	15.19
12		8.36	0.07
13	cymene <p>	8.76	0.54
14	terpinolene	9.19	0.70
15		9.42	0.07
16		13.07	0.03
17		15.66	0.03
18		15.89	0.02
19		16.16	0.02
20		16.49	0.03
21		16.94	0.08
22		18.25	0.02
23		18.63	0.06
24	linalool	18.99	0.22
25	linalool acetate	19.30	0.04
26	caryophyllene<E>+elemene<beta>	20.12	0.23
27	terpinen-4-ol	20.48	0.04
28	humulene<alpha>	22.62	0.03
29	terpineol <alpha>	23.93	0.20
30	germacrene D	24.04	0.06
31		24.54	0.07
32		25.79	0.10
33		25.96	0.03
34	farnesene <(E,E)-alpha>	26.15	0.40
35	methyl anthranilate <methyl-n>	35.48	0.40
36		39.68	0.12
37	sinensal <alpha>	43.44	0.30
			100.00

Laboratoire Rosier Davenne

Chromatogram

Sample Name : HE Mandarin Verte 074PE702 Sample #: 074PE702 Page 1 of 1
FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Mandarine\Mandarine Verte\2017\mandarine verte 170411.raw
Date : 4/12/2017 9:37:25 AM
Method : mandarine verte.mth Time of Injection: 4/11/2017 11:54:47 PM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.14 mV High Point : 993.88 mV
Plot Offset: -47.14 mV Plot Scale: 1041.0 mV

