

Certificate of Analysis

Analysed essential oil : **Grapefruit**

Analysis date : February, 08th 2017

Batch : 038V1703

Shelf life : August 2018

❖ General description

Essential oil	Grapefruit	Origin	USA
Latin name	Citrus paradisi Macfayden		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.856	0.840	<	d	<	0.860
Refractive index	1.4752	1.4700	<	IR	<	1.4790
Optical rotation	+94.50°	+89°	<	$[\alpha]^{20}_d$	<	+98°
Peroxyde index	3,8 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 : 2017-02-08

Software Version : 6.3.2.0646
Sample Name : Pamplermousse 038VI703
Instrument Name : CLARUS 500
Rack/Vial : 0/8
Sample Amount : 1.000000
Cycle : 8

Date : 2/8/2017 2:14:52 PM
Data Acquisition Time : 2/8/2017 4:59:55 AM
Channel : B
Operator : Charlene
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2017\170207c.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene <alpha>	3.09	0.55
2	pinene <beta>	4.47	0.07
3	sabinene	4.78	0.47
4	myrcene	5.88	1.84
5	limonene	6.83	94.50
6	phellandrene<beta>	6.93	0.25
7		8.04	0.03
8	ocimene <(E)-beta>	8.35	0.09
9	octanal <n>	9.43	0.36
10		13.08	0.05
11		16.17	0.06
12		16.29	0.04
13	copaene <alpha>	16.48	0.08
14	decanal <n>	16.94	0.23
15		18.24	0.07
16	linalool	18.99	0.07
17	caryophyllene<E>	20.10	0.22
18	humulene <alpha>	22.61	0.03
19		23.16	0.03
20	terpineol<alpha>	23.94	0.04
21	germacrene D	24.03	0.06
22	geranial	24.97	0.05
23	cadinene <delta>	25.96	0.09
24		26.32	0.06
25		29.77	0.05
26	nootkatone	47.35	0.22
27		66.24	0.05
28		77.85	0.26
29		78.63	0.09
			100.00

Laboratoire Rosier Davenne

Chromatogram

Sample Name : Pamplémousse 038VI703 Sample #: 038VI703 Page 1 of 1
FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Pamplémousse\2017\pamplémousse 170207.raw
Date : 2/8/2017 2:14:53 PM
Method : pamplémousse blanc.mth Time of Injection: 2/8/2017 4:59:55 AM
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

