

Certificate of Analysis

Analysed essential oil : Sweet Orange

Analysis date : July, 17th 2018

Batch : 183DB803

Shelf life : January 2020

❖ General description

Essential oil	Orange (sweet)	Origin	Brasil
Latin name	Citrus sinensis L.		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Light orange
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0,847	0.842	<	d	<	0.850
Refractive index	1,4715	1.4700	<	IR	<	1.4760
Optical rotation	+97,00°	+94°	<	$[\alpha]^{20}_d$	<	+99°
Peroxyde index	4,6 mmol/L	0 mmol/L	<	IP	<	20 mmol/L

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite – Wax, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : polar column

Date : 12.09.2018

Software Version : 6.3.2.0646
Sample Name : HE Orange douce 183DB803
Instrument Name : CLARUS 500
Rack/Vial : 0/1
Sample Amount : 1.000000
Cycle : 1

Date : 7/17/2018 10:02:44 AM
Data Acquisition Time : 7/16/2018 4:52:59 PM
Channel : B
Operator : stagiaire
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2018\180716.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene <alpha>	3.02	0.50
2	pinene <beta>	4.34	0.03
3	sabinene	4.64	0.31
4	carene <delta-3>	5.24	0.12
5	phellandrene<alpha>	5.63	0.03
6	myrcene	5.71	1.84
7	limonene	6.68	95.33
8	phellandrene<beta>	6.77	0.25
9	ocimene<E-beta>	8.17	0.03
10		9.00	0.02
11	octanal <n>	9.23	0.25
12		12.90	0.04
13		14.92	0.02
14	citronellal	16.00	0.06
15	copaene<alpha>	16.35	0.02
16	decanal <n>	16.79	0.25
17	linalool	18.86	0.43
18		19.17	0.03
19		19.83	0.03
20	neral	23.03	0.05
21	terpineol<alpha>	23.82	0.05
22		24.33	0.05
23		24.51	0.07
24	geranial	24.86	0.09
25		25.88	0.02
26		26.15	0.02
27		40.60	0.03
28		50.50	0.01
29		58.29	0.02
			100.00

Laboratoire Rosier Davenne

Chromatogram

Sample Name : HE Orange douce 183DB803 Sample #: 183DB803 Page 1 of 1
FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Orange\Orange Douce\2018\orange douce 180716.raw
Date : 7/17/2018 10:02:44 AM
Method : orange douce.mth Time of Injection: 7/16/2018 4:52:59 PM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.12 mV High Point : 993.88 mV
Plot Offset: -47.12 mV Plot Scale: 1041.0 mV

