

Certificate of Analysis

Analysed essential oil : Ravintsara

Analysis date : November, 23th 2017

Batch : 292AAE702

Shelf life : April 2020

❖ General description

Essential oil	Ravintsara	Origin	Madagascar
Latin name	Cinnamomum camphora		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Colorless
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0,908	0.900	<	d	<	0.915
Refractive index	1.4654	1.4600	<	IR	<	1.4700
Optical rotation	-18,50°	-25°	<	$[\alpha]^{20}_d$	<	-10°

❖ 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 : 2017-11-23

Software Version : 6.3.2.0646
Sample Name : HE Ravintsara 292AAE702
Instrument Name : CLARUS 500
Rack/Vial : 0/16
Sample Amount : 1.000000
Cycle : 11

Date : 11/23/2017 4:17:38 PM
Data Acquisition Time : 11/18/2017 5:08:32 AM
Channel : B
Operator : Charlene
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2017\171117.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene <alpha> + thujene <alph	3.08	6.01
2	camphene	3.69	0.18
3	pinene<beta>	4.44	3.61
4	sabinene	4.76	13.70
5	myrcene+phellandrene<alpha>	5.81	1.57
6	terpinene<alpha>	6.10	0.75
7	limonene	6.62	0.78
8	cineole<1.8>+phellandrene<beta	6.91	56.10
9	ocimene<Z-beta>	7.80	0.05
10	terpinene<gamma>	7.99	1.25
11	ocimene<E-beta>	8.30	0.24
12	cymene<p>	8.71	0.64
13	terpinolene	9.14	0.33
14	sabinene hydrate <cis>	15.65	0.36
15	sabinene hydrate <trans>	18.64	0.29
16	linalool	19.01	0.10
17		19.16	0.10
18	elemene<beta>+caryophyllene<E>	20.10	0.90
19	terpinen-4-ol	20.52	2.56
20		21.57	0.07
21	humulene<alpha>	22.64	0.79
22		23.10	0.63
23		23.71	0.08
24	borneol+terpineol<alpha>+germa	24.03	7.72
25	selinene<beta>	24.35	0.20
26	selinene<alpha>	24.58	0.14
27	bicyclogermacrene	24.92	0.37
28		25.74	0.03
29		26.00	0.03
30	nerol	27.79	0.09
31	germacrene B	28.02	0.09
32		32.75	0.04
33		34.50	0.04
34		36.02	0.03
35		36.77	0.05
36		37.54	0.05
37		39.17	0.05
			100.00

Laboratoire Rosier Davenne

Chromatogram

Sample Name : HE Ravintsara 292AAE702 Sample #: 292AAE702 Page 1 of 1
FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Ravintsara\2017\ravintsara 171117.raw
Date : 11/23/2017 4:17:39 PM
Method : ravintsara.mth Time of Injection: 11/18/2017 5:08:32 AM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.15 mV High Point : 993.88 mV
Plot Offset: -47.15 mV Plot Scale: 1041.0 mV

