

Certificate of Analysis

Analysed essential oil : Tea Tree

Analysis date : June, 15th 2016

Batch : 151JA603

Shelf life : June 2019

❖ General description

Essential oil	Tea Tree	Origin	Australia
Latin name	<i>Melaleuca alternifolia</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Colourless
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.898	0.885	<	d	<	0.906
Refractive index	1.4795	1.4750	<	IR	<	1.4820
Optical rotation	+10,30°	+5°	<	$[\alpha]^{20}_d$	<	+15°

❖ 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 : 2016-06-15

Software Version : 6.3.2.0646
Sample Name : Tea tree 151JA603
Instrument Name : CLARUS 500
Rack/Vial : 0/3
Sample Amount : 1.000000
Cycle : 3

Date : 6/15/2016 10:50:14 AM
Data Acquisition Time : 6/14/2016 7:29:36 PM
Channel : B
Operator : Charlene
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2016\160614b.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	thujene<alpha>+pinene<alpha>	2.90	3.28
2	pinene <beta>	4.15	0.72
3	sabinene	4.42	0.51
4	myrcene+phellandrene <alpha>	5.44	1.39
5	terpinene <alpha>	5.75	10.34
6	limonene	6.17	0.77
7	cineole <1.8>	6.40	2.62
8	terpinene <gamma>	7.58	20.80
9		7.79	0.02
10	cymene <p>	8.15	1.78
11	terpinolene	8.60	3.59
12		9.77	0.04
13		11.97	0.10
14		13.18	0.02
15		13.64	0.05
16		14.82	0.05
17		14.96	0.06
18		15.10	0.05
19		15.60	0.02
20		15.75	0.04
21	copaene <alpha>	15.90	0.08
22	gurjunene <alpha>	17.22	0.28
23		17.58	0.04
24		17.89	0.10
25	linalool	18.25	0.06
26	menth-2-en-1-ol <cis-p>	18.39	0.40
27	caryophyllene <(E)>	19.45	0.34
28	terpinen-4-ol	19.89	43.21
29		20.11	0.04
30		20.21	0.12
31	menth-2-en-1-ol <trans-p>	20.75	0.38
32		20.90	0.04
33	aromadendrene <allo>	21.10	0.40
34		21.52	0.04
35	cadina-1(6),4-diene <trans>	21.80	0.31
36		22.47	0.08
37		22.66	0.13
38	viridiflorene	22.97	0.75
39	terpineol <alpha>	23.16	2.91
40		23.43	0.12
41		23.58	0.07
42		23.81	0.07
43	bicyclogermacrene+muurolene<al	24.14	1.12
44		24.84	0.16
45	cadinene <gamma>	25.10	0.24
46	cadinene <delta>	25.22	0.93
47		25.89	0.16
48		26.86	0.04
49		27.53	0.06
50		28.18	0.04
51		30.45	0.03
52		32.71	0.03
53		33.40	0.07
54		33.61	0.03
55		34.29	0.03
56		34.59	0.13
57		34.83	0.12

6/15/2016 10:50:14 AM Result:

pic #	Nom composant	TR [min]	Aire [%]
58	globulol	35.14	0.18
59	viridiflorol	35.42	0.10
60		35.74	0.04
61		36.13	0.04
62		36.42	0.07
63		36.63	0.04
64		37.60	0.02
65		38.13	0.04
66		38.97	0.03
67		39.68	0.05
			100.00

Laboratoire Rosier Davenne

Chromatogram

Sample Name : Tea tree 151JA603 Sample #: 151JA603 Page 1 of 1
FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Tea Tree\2016\tea tree 160614.raw
Date : 6/15/2016 10:50:15 AM
Method : tea tree.mth Time of Injection: 6/14/2016 7:29:36 PM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.17 mV High Point : 993.88 mV
Plot Offset: -47.17 mV Plot Scale: 1041.0 mV

