

Certificate of Analysis

Analysed essential oil : Saro

Analysis date : April, 14th 2014

Batch : 097A1411

Shelf life : October 2016

❖ General description

Essential oil	Saro	Origin	Madagascar
Latin name	<i>Cinnamosma fragrans</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Pale yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.901	0.874	<	d	<	0.914
Refractive index	1.4646	1.4479	<	RI	<	1.4879
Optical rotation	+4.55°	-5°	<	$[\alpha]^{20}_D$	<	+30°

❖ 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 : 2014-05-19

Software Version : 6.2.0.0.0:B27
Sample Name : Saro
Instrument Name : CLARUS 500
Rack/Vial : 0/14
Sample Amount : 1.000000
Cycle : 14

Date : 14/04/2014 14:24:00
Data Acquisition Time : 09/04/2014 15:32:09
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2014\140408.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1	thujene <alpha>	9.90	0.63
2	pinene <alpha>	10.16	5.03
3	camphene	10.65	0.11
4	sabinene	11.60	5.32
5	pinene <beta>	11.76	7.85
6	myrcene	12.37	1.53
7	phellandrene <alpha>	12.88	0.15
8	terpinene <alpha>	13.44	0.79
9	cymene <p>	13.58	1.94
10	cineole <1.8> + limonene	13.94	55.66
11	ocimene <(Z)-beta>	14.32	0.79
12	ocimene <(E)-beta>	14.79	0.45
13	terpinene <gamma>	15.24	1.58
14	terpinolene	16.56	0.44
15	linalool	16.87	4.72
16		17.16	0.06
17		17.80	0.09
18		18.52	0.11
19	borneol	19.60	0.38
20	terpinen-4-ol	20.25	3.95
21	terpineol <alpha>	20.75	3.05
22	neral	22.74	0.08
23	geraniol	23.83	0.05
24	geranial	24.00	0.07
25		24.52	0.05
26		26.12	0.07
27		26.34	0.07
28		27.29	0.08
29	terpinyl acetate <alpha>	27.78	0.77
30	cubebene <alpha>	28.37	0.30
31	copaene <alpha>	29.46	0.15
32		29.98	0.12
33		30.87	0.07
34	caryophyllene <(E)>	31.11	1.75
35		31.70	0.11
36		32.25	0.04
37	humulene <alpha>	32.42	0.54
38		32.55	0.09
39	germacrene D	33.46	0.11
40		33.83	0.05
41		34.85	0.20
42	cadinene <delta>	35.08	0.26
43	caryophyllene oxide	37.00	0.26
44		37.93	0.09
			100.00

Chromatogram

Sample Name : Saro
File Name : C:\Data\Colonne Apolaire\Huiles Essentielles\Saro\2014\saro 140408.raw
Date : 14/04/2014 14:24:03
Method : Saro.mth
Start Time : 0.00 min
End Time : 82.00 min
Time of Injection : 09/04/2014 15:32:09
Low Point : -47.25 mV
High Point : 993.88 mV
Plot Offset : -47.25 mV
Plot Scale : 1041.1 mV

