

Certificate of Analysis

Analysed essential oil : Ylang Ylang III

Analysis date : April, 21st 2016

Batch : 084QB601

Shelf life : September 2018

❖ General description

Essential oil	Ylang Ylang III	Origin	Madagascar
Latin name	<i>Cananga odorata</i>		

❖ Organoleptic characteristics

Appearance	Mobile liquid, slightly cloudy
Colour	Very pale yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.917	0.906	<	d	<	0.925
Refractive index	1.5046	1.5020	<	RI	<	1.5130
Optical rotation	-50,20°	-70°	<	$[\alpha]^{20}_D$	<	-45°

❖ 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 : 2016-04-21

Software Version : 6.3.2.0646
Sample Name : Ylang III 084QB601
Instrument Name : CLARUS 500
Rack/Vial : 0/8
Sample Amount : 1.000000
Cycle : 8

Date : 4/21/2016 4:36:11 PM
Data Acquisition Time : 4/21/2016 2:48:00 AM
Channel : A
Operator : Charlene
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2016\160420.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1	pinene <alpha>	9.81	0.11
2		11.38	0.03
3	myrcene	11.99	0.07
4	cresol methyl ether <p>	12.65	0.19
5	limonene	13.50	0.02
6		14.41	0.03
7	methyl benzoate	15.72	0.11
8	linalool	16.48	1.10
9	benzyl acetate	18.68	0.17
10	terpineol <alpha>	20.34	0.06
11	geraniol	23.26	0.35
12		27.04	0.04
13	eugenol	27.24	0.31
14		27.37	0.17
15	cubebene <alpha>	27.97	0.22
16	geranyl acetate	28.70	2.72
17		28.86	0.17
18	copaene <alpha>	29.05	1.38
19	elemene <beta>	29.60	0.73
20		29.81	0.03
21	caryophyllene<E>+cinnamyl acet	30.78	18.19
22		31.10	0.44
23		31.51	0.06
24		31.72	0.09
25		31.86	0.26
26	humulene <alpha>	32.04	4.60
27		32.20	0.20
28		32.33	0.24
29		32.66	0.04
30		32.85	0.31
31	muurolene <gamma>	32.99	1.75
32	germacrene D	33.16	23.32
33		33.44	0.33
34		33.57	0.65
35	bicyclogermacrene	33.69	0.81
36	himachalene <beta>	33.85	1.17
37	farnesene <(E,E)-alpha>+?	34.20	14.66
38	cadinene <gamma>	34.32	1.19
39		34.46	0.11
40	cadinene <delta>	34.72	4.56
41		35.03	0.29
42		35.24	0.37
43		35.39	0.10
44		35.93	0.05
45		36.04	0.32
46		36.20	0.04
47		36.33	0.06
48		36.69	0.12
49		36.77	0.07
50		36.95	0.05
51		37.14	0.06
52		37.29	0.07
53		37.41	0.02
54		37.77	0.04
55		37.92	0.07
56		38.02	0.39
57		38.38	0.24

4/21/2016 4:36:11 PM Result:

Pic #	Component Name	TR [min]	Area [%]
58		38.46	0.12
59	cadinol <epi-alpha>	38.81	1.43
60	muurolol <epi-alpha>	38.93	0.60
61	cadinol <alpha>	39.24	2.22
62		39.91	0.23
63		40.14	0.07
64		41.20	0.02
65	farnesol <(2E,6E)>	41.69	2.19
66	benzyl benzoate	42.41	6.09
67	farnesyl acetate <(2E,6E)>	45.68	1.90
68	benzyl salicylate	45.91	1.69
69		49.31	0.12
			100.00

Chromatogram

Sample Name : Ylang III 084QB601 Sample #: 084QB601 Page 1 of 1
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Ylang\Ylang III\2016\ylang iii 160420.raw
Date : 4/21/2016 4:36:12 PM
Method : Ylang III.mth Time of Injection: 4/21/2016 2:48:00 AM
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.24 mV High Point : 993.88 mV
Plot Offset: -47.24 mV Plot Scale: 1041.1 mV

