

# Certificate of Analysis

Analysed essential oil: Ambrette

Analysis date : March 13<sup>th</sup> 2013

Batch : 071RD303

Shelf life : April 2015

## ❖ General description

Essential oil	Ambrette	Origin	Ecuador
Latin name	<i>Hibiscus abelmoschus</i>		

## ❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Orange brown
Odour	Characteristic

## ❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.903	0.883	<	d	<	0.903
Refractive index	1.4662	1.4600	<	RI	<	1.4730
Optical rotation	ND	-4°	<	$[\alpha]^{20}_d$	<	+6°

## ❖ 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 : H<sub>2</sub>

⇒ See Chromatogram : non-polar column

Date : 2014-06-02

Software Version : 6.2.0.0.0:B27  
Sample Name : Ambrette  
Instrument Name : CLARUS 500  
Rack/Vial : 0/3  
Sample Amount : 1.000000  
Cycle : 3

Date : 13/03/2013 12:34:25  
Data Acquisition Time : 12/03/2013 21:22:06  
Channel : A  
Operator : Davenne  
Dilution Factor : 1.000000

Result File :  
Sequence File : C:\Sequences\CPG\2013\130312.seq

## Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1		17.19	0.03
2		21.92	0.08
3		23.17	0.08
4		23.79	0.02
5	decanol <n>	24.65	0.76
6		26.31	0.02
7		29.50	0.07
8	octyl isobutyrate	29.65	0.18
9		30.26	0.04
10	decyl acetate	30.54	8.94
11		31.56	0.07
12		31.87	0.16
13		32.13	0.02
14		32.40	0.07
15	farnesene <(E)-beta>	32.60	0.10
16	dodecanol <n>	33.08	0.46
17		34.04	0.13
18		34.18	0.14
19		34.47	0.06
20		34.56	0.17
21		34.68	0.07
22		35.90	0.02
23	nerolidol <(E)>	36.49	0.89
24		37.43	0.72
25		38.06	0.07
26	dodecyl acetate	38.29	2.28
27		38.62	0.05
28		39.28	0.72
29		39.65	0.07
30		40.01	0.26
31		40.76	0.04
32		41.06	0.04
33		41.33	0.48
34		41.66	0.52
35		42.04	2.38
36	farnesol <(2E,6E)>	42.16	7.09
37		42.58	0.92
38		43.06	0.61
39		43.67	0.04
40		44.05	0.17
41		44.44	0.55
42		45.17	0.13
43		45.38	3.70
44		45.74	0.02
45		45.88	0.02
46	farnesyl acetate <(2E,6E)>	46.27	44.28
47		46.88	0.04
48		47.21	0.02
49		47.91	0.02
50		48.05	0.03
51		48.24	0.04
52		49.03	0.52
53	ambrettolid	49.24	14.05
54		49.62	0.05
55		50.38	1.91
56		50.87	0.08
57		51.08	0.02
58		51.35	1.69

13/03/2013 12:34:25 Result:

Pic #	Component Name	TR [min]	Area [%]
59		51.71	0.18
60		53.07	0.09
61		54.12	0.07
62		54.40	0.07
63		55.27	0.16
64		55.40	1.31
65		55.51	0.26
66		56.12	0.84
67		56.39	0.71
68		57.10	0.02
69		57.28	0.05
70		58.18	0.03
			100.00

# Chromatogram

Sample Name : Ambrette      Sample #: 071RD303      Page 1 of 1  
File Name : C:\Data\Colonne Apolaire\Huiles Essentielles\Ambrette\2013\ambrette 130312.raw  
Date : 13/03/2013 12:34:28  
Method : ambrette.mth      Time of Injection: 12/03/2013 21:22:06  
Start Time : 0.00 min      End Time : 82.00 min      Low Point : -47.27 mV      High Point : 993.88 mV  
Plot Offset: -47.27 mV      Plot Scale: 1041.1 mV

