

Certificate of Analysis

Analysed essential oil : Cape chamomile

Analysis date : March, 21st 2014

Batch : 079RB404

Shelf life : April 2017

❖ General description

Essential oil	Cape chamomile	Origin	South Africa
Latin name	<i>Eriocephalus punctulatus</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Greenish yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.898	0.870	<	d	<	0.900
Refractive index	1.4372	1.4280	<	RI	<	1.4430
Optical rotation	ND	-	<	$[\alpha]^{20}_d$	<	-

❖ 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 : 2015-03-09

Software Version : 6.2.0.0.0:B27
Sample Name : Eriocéphale
Instrument Name : CLARUS 500
Rack/Vial : 0/7
Sample Amount : 1.000000
Cycle : 7

Date : 21/03/2014 12:11:54
Data Acquisition Time : 21/03/2014 04:04:49
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2014\140320.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1		2.98	0.08
2		4.27	0.45
3		7.40	0.09
4	methyl butyl acetate <2>	7.75	0.36
5	isobutyl isobutyrate	9.07	10.25
6		9.94	0.17
7	pinene <alpha>	10.16	1.44
8	camphene	10.65	0.64
9		11.26	0.31
10	sabinene	11.60	0.15
11	pinene <beta>	11.76	0.25
12		12.24	0.66
13	isobutyl 2-methyl butanoate	12.65	1.52
14	isobutyl isovalerate	12.79	1.32
15	amyl isovalerate	13.05	2.79
16	isoamyl isobutyrate	13.23	24.77
17		13.45	0.23
18	cymene <p>	13.58	2.16
19	cineole <1.8>	13.88	0.22
20		14.30	0.42
21	nonane <2> + isobutyl angelate	14.66	3.22
22		15.24	0.26
23		15.39	1.39
24		15.80	0.83
25		16.56	0.09
26		16.71	0.26
27	linalool	16.86	0.74
28		16.97	1.11
29	isoamyl 2-methyl butanoate	17.15	5.04
30	amyl valerate	17.30	1.07
31		17.78	0.16
32	camphor	18.31	2.20
33		18.52	0.28
34		18.74	0.41
35		19.06	0.36
36	isoamyl angelate	19.27	3.78
37	borneol	19.66	1.80
38	terpinen-4-ol	20.24	2.45
39		20.53	1.37
40		20.74	0.29
41		21.08	0.29
42		21.54	4.14
43		23.12	0.49
44	linalool acetate	23.89	4.78
45		25.03	0.17
46		27.07	0.26
47	neryl acetate	28.34	0.31
48	geranyl acetate	29.06	0.61
49		29.22	0.61
50	copaene <alpha>	29.46	1.56
51		29.85	0.11
52		30.00	0.31
53		30.56	0.20
54		31.11	0.34
55		32.21	0.11
56		32.69	0.20
57		32.99	0.27
58		33.15	0.54

21/03/2014 12:11:54 Result:

Pic #	Component Name	TR [min]	Area [%]
59		33.65	0.13
60		34.14	0.19
61	artedouglasia oxide C	34.50	1.30
62		34.73	0.36
63	artedouglasia oxide A	34.89	1.64
64		35.08	0.24
65		35.38	0.38
66		35.77	0.40
67		36.40	0.17
68		36.56	0.72
69		36.82	0.86
70		37.01	0.59
71		37.24	0.33
72		37.44	0.14
73		38.61	0.39
74		38.92	0.78
75		39.23	0.11
76		40.17	0.15
77		40.54	0.13
78		40.75	0.13
79		51.92	0.12
			100.00

Chromatogram

Sample Name : Eriocéphale Sample #: 079RB404 Page 1 of 1
File Name : C:\Data\Colonne Apolaire\Huiles Essentielles\Eriocéphale\2014\eriocéphale 140320.raw
Date : 21/03/2014 12:11:56
Method : eriocéphale.mth Time of Injection: 21/03/2014 04:04:49
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

