

Certificate of Analysis

Analysed essential oil : Cedar (Atlas)

Analysis date : April 17th 2013

Batch : 106PB303

Shelf life : May 2016

❖ General description

Essential oil	Cedar (Atlas)	Origin	Morocco
Latin name	<i>Cedrus atlantica</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Light yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.930	0.924	<	d	<	0.945
Refractive index	1.5092	1.5050	<	RI	<	1.5170
Optical rotation	+73.05°	+57°	<	$[\alpha]^{20}_D$	<	+80°

❖ 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 : Cèdre Atlas
Instrument Name : CLARUS 500
Rack/Vial : 0/6
Sample Amount : 1.000000
Cycle : 6

Date : 17/04/2013 11:40:06
Data Acquisition Time : 17/04/2013 02:45:46
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2013\130416.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1	pinene <alpha>	10.23	0.02
2	limonene	14.05	0.01
3		17.84	0.68
4		18.45	0.02
5		18.90	0.04
6		19.02	0.05
7		20.04	0.05
8		20.86	0.02
9		26.31	0.02
10		27.74	0.01
11		28.50	0.10
12		29.37	0.03
13		29.57	0.02
14		29.90	0.73
15		30.09	0.12
16		30.28	0.01
17	sibirene	30.55	0.62
18	longifolene	30.67	0.51
19	cedrene <alpha>	30.98	1.06
20	cedrene <beta>	31.21	0.25
21		31.48	0.90
22		31.66	0.26
23		32.02	0.01
24		32.13	0.19
25	himachalene <alpha>	32.44	16.36
26		32.70	0.48
27		32.88	0.06
28		32.98	0.13
29		33.12	0.29
30	curcumene <gamma>	33.27	0.45
31	himachalene <gamma> + curcumen	33.58	12.00
32		33.78	0.20
33		34.04	0.09
34		34.20	0.24
35	himachalene <beta>	34.56	47.09
36	calamenene <trans>	34.97	0.31
37	himachalene <gamma-dehydro-ar>	35.12	0.83
38	cadinene <delta>	35.22	2.97
39		35.37	0.08
40		35.50	0.34
41	calacorene <alpha>	35.67	0.48
42	bisabolene <(Z)-alpha>	35.97	0.67
43		36.12	0.05
44		36.23	0.04
45		36.38	0.04
46		36.53	0.11
47		36.77	0.29
48		36.90	0.14
49	cedrol	37.65	0.17
50		37.80	0.10
51		38.18	0.26
52		38.31	0.50
53		38.48	0.02
54		38.57	0.02
55		38.71	0.15
56		38.78	0.13
57	cubenol <1-epi>	38.90	0.49
58		39.03	0.09

17/04/2013 11:40:06 Result:

Pic #	Component Name	TR [min]	Area [%]
59		39.19	0.06
60		39.48	0.57
61		39.67	0.01
62		39.97	0.70
63		40.21	0.31
64		40.60	0.01
65	atlantone <(Z)-gamma>	40.82	0.75
66	deodarone	40.92	1.37
67		41.09	0.08
68	atlantone <(E)-gamma>	41.27	0.84
69	atlantone <(Z)-alpha>	41.64	0.63
70		42.18	0.02
71		42.48	0.07
72		42.73	0.05
73	atlantone <(E)-alpha>	43.34	0.05
74		43.75	2.79
75		43.94	0.10
76		44.42	0.09
77		45.04	0.02
78		45.62	0.03
79		47.32	0.02
80		48.06	0.01
81		53.83	0.01
82		73.44	0.02
			<hr/>
			100.00

Chromatogram

Sample Name : Cèdre Atlas Sample #: 106PB303 Page 1 of 1
File Name : C:\Data\Colonne Apolaire\Huiles Essentielles\Cèdre\Cèdre Atlas\2013\cèdre atlas 130416.raw
Date : 17/04/2013 11:40:09
Method : Cèdre Atlas.mth Time of Injection: 17/04/2013 02:45:46
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.21 mV High Point : 993.88 mV
Plot Offset: -47.21 mV Plot Scale: 1041.1 mV

