

Certificate of Analysis

Analysed essential oil : Cedarwood atlas

Analysis date : November, 25th 2015

Batch : 328PB501

Shelf life : December 2018

❖ General description

Essential oil	Cedarwood atlas	Origin	Maroco
Latin name	Cedrus atlantica L.		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Light yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.933	0.924	<	d	<	0.945
Refractive index	1.5106	1.5050	<	IR	<	1.5170
Optical rotation	+78.00°	+57°	<	$[\alpha]^{20}_D$	<	+80°
Peroxide index	ND	0 mmol/L	<	IP	<	10 mmol/L

❖ 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 : 2015-11-25

Software Version : 6.2.0.0.0:B27
Sample Name : Cedre atlas
Instrument Name : CLARUS 500
Rack/Vial : 0/2
Sample Amount : 1.000000
Cycle : 2

Date : 25/11/2015 14:27:58
Data Acquisition Time : 24/11/2015 18:11:45
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2015\151124b.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1		5.12	0.10
2	pinene <alpha>	9.83	0.06
3	phellandrene <beta>	13.52	0.03
4	4-acetyl-1-methylcyclohexene	17.36	1.40
5		18.43	0.10
6		18.55	0.09
7		19.55	0.08
8		20.37	0.04
9		28.00	0.09
10		28.87	0.03
11		29.39	0.65
12		29.61	0.17
13	sibirene	30.05	0.62
14	longifolene	30.16	0.55
15	cedrene <alpha>	30.44	0.14
16	cedrene <beta>	30.71	0.02
17	?	31.00	1.13
18		31.64	0.22
19	himachalene <alpha>	31.90	16.31
20		32.20	0.52
21		32.38	0.08
22		32.48	0.15
23		32.62	0.28
24		32.78	0.46
25	himachalene<gama>+curcumene<ar	33.03	11.76
26		33.27	0.26
27		33.55	0.13
28		33.69	0.16
29	himachalene <beta> + ?	33.99	45.61
30		34.46	0.24
31	calamenene <trans>+himachalene	34.61	1.04
32	cadinene <delta>+?	34.71	2.79
33		34.87	0.06
34	himachalene <alpha-dehydro-ar>	34.99	0.34
35	calacorene <alpha>	35.17	0.56
36	bisabolene <(Z)-alpha>	35.49	0.63
37		35.74	0.04
38		35.88	0.03
39		36.07	0.16
40		36.28	0.40
41		36.41	0.21
42		37.14	0.27
43	cedrol	37.52	0.06
44		37.68	0.34
45		37.81	0.65
46		38.22	0.16
47		38.30	0.12
48	cubenol <1-epi>	38.41	0.45
49		38.98	0.70
50		39.23	0.05
51		39.47	0.94
52		39.73	0.39
53	atlantone <(Z)-gamma>	40.33	0.94
54	deodarone	40.42	1.67
55		40.60	0.07
56	atlantone <(E)-gamma>	40.78	1.02
57	atlantone <(Z)-alpha>	41.17	0.74
58		41.68	0.06

25/11/2015 14:27:58 Result:

Pic #	Component Name	TR [min]	Area [%]
59		41.99	0.09
60		42.26	0.05
61		42.85	0.07
62	atlantone <(E)-alpha>	43.27	3.21
63		43.45	0.13
64		43.95	0.08
			100.00

Chromatogram

Sample Name : Cedre atlas Sample #: 328PB501 Page 1 of 1
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Cèdre\Cèdre Atlas\2015\cèdre atlas 151124.raw
Date : 25/11/2015 14:28:00
Method : cèdre atlas.mth Time of Injection: 24/11/2015 18:11:45
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.29 mV High Point : 993.88 mV
Plot Offset: -47.29 mV Plot Scale: 1041.2 mV

