

Certificate of Analysis

Analysed essential oil : **Eucalyptus radiata**

Analysis date : June, 3rd 2013

Batch : 150VA301

Shelf life : December 2015

❖ General description

Essential oil	Eucalyptus radiata	Origin	Australia
Latin name	<i>Eucalyptus radiata</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Colourless
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.911	0.910	<	d	<	0.930
Refractive index	1.4605	1.4600	<	RI	<	1.4670
Optical rotation	+2.05°	+1°	<	$[\alpha]^{20}_D$	<	+5°

❖ 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 : 2014-02-18

Software Version : 6.2.0.0:B27
Sample Name : Eucalyptus Radiata
Instrument Name : CLARUS 500
Rack/Vial : 0/1
Sample Amount : 1.000000
Cycle : 1

Date : 03/06/2013 12:49:15
Data Acquisition Time : 30/05/2013 18:11:11
Channel : A
Operator : Davenne
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2013\130530bis.seq

Rapport d'analyse

colonne apolaire

Pic #	Component Name	TR [min]	Area [%]
1	thujene <alpha>	9.86	0.32
2	pinene <alpha>	10.11	2.51
3	sabinene	11.55	0.96
4	pinene <beta>	11.71	0.75
5	myrcene	12.32	1.38
6	phellandrene <alpha>	12.85	0.68
7	terpinene <alpha>	13.40	0.43
8	cymene <p>	13.55	0.45
9	limonene + cineole <1.8>	13.92	83.78
10	ocimene <(E)-beta>	14.75	0.36
11	terpinene <gamma>	15.19	0.96
12		16.22	0.02
13	terpinolene	16.52	0.24
14	linalool	16.81	0.30
15		17.73	0.08
16		18.47	0.04
17	borneol	19.55	0.10
18	terpinen-4-ol	20.20	1.30
19	terpineol <alpha>	20.71	4.25
20		21.53	0.02
21	neral	22.67	0.19
22		23.10	0.07
23	geraniol	23.63	0.12
24	geraniol + linalool acetate	23.94	0.21
25	terpinyl acetate <alpha>	27.75	0.39
26	caryophyllene <(E)>	31.09	0.04
27	bicyclogermacrene	34.07	0.03
			100.00

Chromatogram

Sample Name : Eucalyptus Radiata Sample #: 150VA301 Page 1 of 1
FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Eucalyptus\Eucalyptus Radiata\2013\eucalyptus radiata 130530.raw
Date : 03/06/2013 12:49:18
Method : eucalyptus radiata.mth Time of Injection: 30/05/2013 18:11:11
Start Time : 0.00 min End Time : 82.00 min Low Point : -47.16 mV High Point : 993.88 mV
Plot Offset: -47.16 mV Plot Scale: 1041.0 mV

