

Certificate of Analysis

Analysed essential oil : Neroli

Analysis date : June, 29th 2016

Batch : 116QA604

Shelf life : May 2018

❖ General description

Essential oil	Neroli	Origin	Tunisia
Latin name	Citrus aurantium L.ssp amara var. pumilia		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Light yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.872	0.864	<	d	<	0.876
Refractive index	1.4699	1.4680	<	IR	<	1.4740
Optical rotation	+4,10°	+2°	<	$[\alpha]^{20}_d$	<	+12°
Peroxyde index	9,3 mmol/L	0 mmol/L	<	IP	<	20 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 : 2016-06-16

Software Version : 6.3.2.0646
 Sample Name : Neroli 116QA604
 Instrument Name : CLARUS 500
 Rack/Vial : 0/3
 Sample Amount : 1.000000
 Cycle : 3

Date : 6/29/2016 2:18:18 PM
 Data Acquisition Time : 6/28/2016 6:41:44 PM
 Channel : B
 Operator : Charlene
 Dilution Factor : 1.000000

Result File :
 Sequence File : C:\Sequences\CPG\2016\160628.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene <alpha>	2.91	0.83
2	thujene <alpha>	2.98	0.03
3	camphene	3.49	0.07
4	pinene <beta>	4.20	15.59
5	sabinene	4.45	1.43
6	myrcene	5.46	2.14
7	terpinene <alpha>	5.73	0.16
8	limonene	6.24	12.50
9	phellandrene <beta>	6.41	0.31
10		6.57	0.03
11	ocimene <(Z)-beta>	7.35	0.84
12	terpinene <gamma>	7.50	0.28
13	ocimene <(E)-beta>	7.84	7.15
14	cymene <p>	8.16	0.03
15	terpinolene	8.60	0.48
16		9.65	0.06
17	linalool oxide <cis>	14.06	0.10
18	linalool oxide <trans>	15.07	0.03
19		15.31	0.06
20	linalool	18.37	25.84
21	linalool acetate	18.65	12.74
22	caryophyllene <(E)>	19.47	0.48
23	terpinen-4-ol	19.74	0.34
24		20.53	0.02
25	humulene <alpha>	21.92	0.05
26		22.34	0.04
27	farnesene <(E)-beta>	22.66	0.06
28		23.08	0.14
29	terpineol <alpha>	23.18	2.90
30	germacrene D	23.34	0.08
31	geranial	24.16	0.19
32	neryl acetate	24.50	1.53
33		24.92	0.04
34		25.49	0.07
35	geranyl acetate	25.59	2.88
36	nerol	26.90	0.87
37	geraniol	28.57	2.14
38		29.99	0.08
39	nerolidol <(E)>	35.00	2.31
40		38.44	0.05
41	anthranilate <methyl>	39.36	0.30
42		39.60	0.03
43		40.95	0.06
44		41.33	0.21
45		43.44	0.24
46	farnesol <(2E,6E)>	43.90	3.41
47		44.77	0.38
48		48.85	0.21
49		53.91	0.11
50		58.64	0.06

100.00

Chromatogram

Sample Name : Neroli 116QA604 Sample #: 116QA604 Page 1 of 1
 FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Nérolil2016\nérolil 160628.raw
 Date : 6/29/2016 2:18:19 PM Time of Injection: 6/28/2016 6:41:44 PM
 Method : nérolil.mth Start Time : 0.00 min End Time : 82.00 min Low Point : -47.12 mV High Point : 993.88 mV
 Plot Offset: -47.12 mV Plot Scale: 1041.0 mV

