

**Sample nature:** ESSENTIAL OIL  
**Botanical species:** PELARGONIUM GRAVEOLENS/ PELARGONIUM ASPERUM  
**Reference name:** GERANIUM ESSENTIAL OIL, BOURBON TYPE, CONVENTIONAL  
**Batch number:** B019721  
**Origin:** KENYA  
**Part:** LEAVES

Essential oil obtained through distillation of the leaves of *Pelargonium graveolens* / *Pelargonium asperum*.

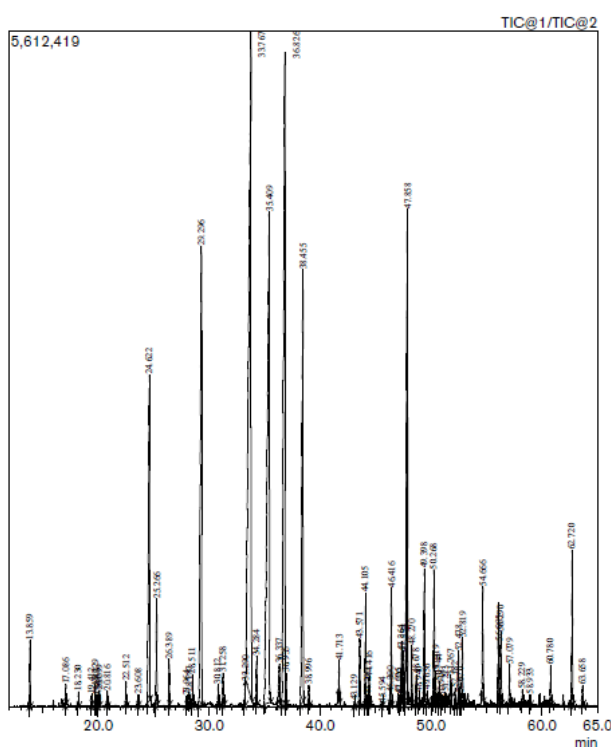
**Expiry date** 04/2024

### PHYSICAL CHARACTERISTICS

	VALUES	NORM	
		Minimum	Maximum
Specific gravity 20 °C	<b>0.893</b>	0,885	0,897
Refractive index 20°C	<b>1.465</b>	1,460	1,471
Optical rotation 20°C	<b>-14.55°</b>	- 17 °	- 9 °

Physical state	N/A	<b>Compliant</b>	Limpid liquid
Colour	N/A	<b>Compliant</b>	Clear green to amber
Odour	N/A	<b>Compliant</b>	Characteristic, tangy

### Chromatographic profile (GC/FID):



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**Identification results 1: GERANIUM ESSENTIAL OIL, BOURBON TYPE, CONVENTIONAL BATCH N° B019721**

R.Time	Name	Area%	Fairoils SRL Norm (%)
13.859	alpha-Pinene	0.446	
17.086	Myrcene	0.140	
18.230	alpha-Phellandrene	0.096	
19.412	para-Cymene	0.069	
19.729	Limonene	0.155	
19.849	beta-Phellandrene	0.080	
19.941	1,8-Cineole+Cyclohexanol derivative	0.031	
20.099	cis-beta-Ocimene	0.132	
20.816	trans-beta-Ocimene	0.115	
22.512	cis-Linalool oxide (furanoid)	0.185	
23.608	trans-Linalool oxide (furanoid)	0.089	
<b>24.622</b>	<b>Linalool</b>	<b>5.042</b>	<b>1.0 – 10.0</b>
25.266	cis-Rose oxide	0.960	
<b>26.389</b>	<b>trans-Rose oxide</b>	<b>0.402</b>	<b>1.0 – 4.0</b>
27.964	trans-Chrysanthal	0.083	
28.187	Citronellal	0.106	
<b>28.511</b>	<b>Menthone</b>	<b>0.292</b>	<b>≤ 3.0</b>
<b>29.296</b>	<b>Isomenthone</b>	<b>7.733</b>	<b>3.5 – 13.0</b>
30.812	Menthol	0.175	
31.258	alpha-Terpineol	0.399	
33.290	Nerol	0.272	
<b>33.767</b>	<b>Citronellol</b>	<b>22.291</b>	<b>18.0 – 43.0</b>
34.284	Neral	0.461	
<b>35.409</b>	<b>Geraniol</b>	<b>14.638</b>	<b>5.0 – 24.0</b>
36.337	Geranial	0.633	
<b>36.826</b>	<b>Citronellyl formate</b>	<b>13.474</b>	<b>2.0 – 14.0</b>
36.935	Neryl formate	0.225	
<b>38.455</b>	<b>Geranyl formate</b>	<b>7.148</b>	<b>1.0 – 8.0</b>
38.996	Terpineol acetate	0.175	
41.713	Citronellyl acetate	0.271	
43.129	alpha-Ylangene	0.038	
43.571	alpha-Copaene	0.800	
44.105	beta-Bourbonene	1.142	
44.290	alpha-Bourbonene	0.111	
44.416	beta-Elemene	0.264	
45.594	beta-Maaliene	0.033	
46.300	beta-Ylangene	0.104	
46.416	beta-Caryophyllene	1.213	
47.025	beta-Copaene	0.087	
47.220	trans-alpha-Bergamotene	0.107	
47.364	alpha-Guaiene	0.498	
<b>47.554</b>	<b>Citronellyl propionate</b>	<b>0.478</b>	<b>≤ 2.0</b>
<b>47.858</b>	<b>6,9-Guaiadiene</b>	<b>7.363</b>	<b>≤ 14.0</b>
48.270	Isogermacrene D	0.501	
48.678	alpha-Humulene	0.287	
48.940	allo-Aromadendrene	0.084	

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**Identification results 2: GERANIUM ESSENTIAL OIL, BOURBON TYPE, CONVENTIONAL BATCH N° B019721**

R.Time	Name	Area%	Fairoils SRL Norm (%)
49.398	Geranyl propionate	1.249	
49.656	cis-Cadina-1(6),4-diene	0.115	
<b>50.268</b>	<b>Germacrene D</b>	<b>1.337</b>	<b>≤ 4.0</b>
50.419	trans-Muurooladiene	0.296	
50.744	beta-Selinene	0.227	
50.918	trans-Muurolo-4(14),5-diene	0.092	
51.293	alpha-Muurolene	0.142	
51.767	Geranyl isobutanoate	0.235	
52.182	gamma-Cadinene	0.154	
52.478	delta-Cadinene	0.558	
52.670	trans-Calamenene	0.131	
52.819	Citronellyl butanoate	0.755	
54.666	Geranyl butanoate	1.067	
56.085	Furopelargone B	0.637	
56.290	Phenyl ethyl tiglate	0.796	
57.079	Geranyl isovalerate	0.378	
58.229	1,10-Di-epi-cubenol	0.129	
58.933	1-epi-Cubenol	0.080	
60.780	cis-Citronellyl tiglate	0.349	
<b>62.720</b>	<b>Geranyl tiglate</b>	<b>1.682</b>	<b>≤ 4.0</b>
63.658	Geranyl caproate	0.165	

**Minor deviations from the specification are not considered to be critical.**

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