

## CERTIFICATE OF ANALYSIS

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### Geranium Bourbon Oil -

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<b>3.1 Appearance:</b>	Clear, pale greenish-yellow liquid	Conforms.
<b>3.2 Odour:</b>	Characteristic geranium bourbon aroma	Conforms.
<b>Odour Threshold:</b>	Not available. N/A	
<b>3.3 Specific Gravity:</b>	0.850 to 0.920 @ 20°C	0.887
<b>3.4 Refractive Index:</b>	1.4500 to 1.4700 @ 20°C	1.4623
<b>3.5 Optical Rotation:</b>	-4.0° to -15.0° @ 20°C	-9.993°
<b>3.6 Solubility:</b>	Soluble in ethyl alcohol	Conforms.
<b>3.7 Solubility in Water:</b>	Insoluble Confo	rms.
<b>3.8 Flash Point:</b>	82°C [Tag Closed Cup]	Conforms.

### 3.9 GAS CHROMATOGRAPH ANALYSIS --- and EFFA Listed Sensitisers & IFRA Notifiable Substances

CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RA NGE	RESULT
Linalool:	YES	YES	78-70-6	201-134-4	Not available.	<b>12.9%</b>
Citronellol:	NO	YES	106-22-9	203-375-0	Not available.	<b>27.3%</b>
Nerol:	NO	NO	106-25-2	203-378-7	Not available.	<b>1.4%</b>
Geraniol:	NO	YES	106-24-1	203-377-1	Not available.	<b>16.2%</b>
Citronellyl Formate:	NO	NO	105-85-1	203-338 -9	Not available.	<b>9.5%</b>
Geranyl Formate:	NO	NO	105-86-2	203-339 -4	Not available.	<b>6.8%</b>
Geranyl Butyrate:	NO	NO	106-29-6	203-381 -3	Not available.	<b>1.2%</b>
Geranyl Tiglate:	NO	NO	7785-33-3	232-078-9	Not available.	<b>1.1%</b>
iso-Menthone:	NO	NO	491-07-6	207-727 -4	Not available.	<b>6.7%</b>
Guaia-6,9-diene:	NO	NO	Not allocated	Not allocated	Not available.	<b>3.9%</b>