

## ANALYSIS

**Product Name :** **GERANIUM OIL**  
**Aceite esencial de Geranio**

**Botanical name :** *Pelargonium Graveolens*

**Batch number :** LS112836

**Origin :** Egipto

### Analysis features :

Agilent GC System 7890A - Column : HP INNOWAX polaire : 60 m ´ 0,25 mm ´ 0,5 µm

Temperature program : 8 min to 95 °C – 4 °C/min till 190 °C - 29 min to 190°C

Carrier gas H2 : 30 psis/FID. Injector : split. Sample : 0.1 µl without dilution

The compounds of the essential oils are identified by retention times.

% Are calculated from the peak areas given by the GC / FID without the use of a correction factor.

### Physical characteristics:

Density at 20°C	0.896
Refractive index at 20°C	1.468
Optical rotation at a 20°C	-9.6

**Production date:**

**Best before end:**

## GC Results

COMPONENTS	%	Standar	Pharma
a-PINENE	0.49		
b-MYRCENE	0.08		
a-PHELLANDRENE	0.06		
LIMONENE	0.17		
Cis-b-OCIMENE	0.07		
Trans-b-OCIMENE	0.08		
p-CYMENE	0.07		
Cis-OXYDE DE ROSE	1.04	<b>0,7 – 1,5</b>	
Trans-OXYDE DE ROSE	0.45	<b>0,3 – 0,6</b>	
Cis-OXYDE DE LINALOL	0.19		
a-CUBEBENE	0.18		
trans-OXYDE DE LINALOL	0.09		
MENTHONE	1.96	<b>&lt; 2,1</b>	
a-COPAENE	0.55		
ISOMENTHONE	4.66	<b>4,0 – 8,0</b>	
ISONERAL	0.08		
b-BOURBONENE	0.02		
LINALOL	4.19	<b>4,0 – 8,5</b>	
ISOPULEGOL	0.05		
e-CADINENE	0.16		
b-CUBEBENE	0.08		
TERPINENE-4-OL	0.16		
b-CARYOPHYLLENE	1.21		
6,9-GUAIADIENE	0.45	<b>&lt; 0,5</b>	
AROMADENDRENE	0.09		
CITRONELLYL FORMATE	7.49	<b>5,0 – 8,0</b>	
b-MAALIENE	0.01		
NEOISOMENTHOL	0.11		
CADINA-3,5-DIENE	0.31		
ZONARENE	0.30		
NERYL FORMATE + EPI-ZONARENE	0.18		
a-HUMULENE	0.59		
NERAL	0.00		
a-TERPINEOL	0.30	<b>0,3 – 0,6</b>	
LEDENE	0.41		
GERANYL FORMATE	3.30	<b>2,0 – 7,0</b>	
GERMACRENE D	1.31		
CITRONELLYL PROPIONATE	0.26		
b-SELINENE + a-MUUROLENE	0.08		
a-SELINENE	0.20		
GERANIAL	0.71		
GERANYL ACETATE	0.33		
CITRONELLOL	32.51	<b>25,0 – 36,0</b>	
d-CADINENE	1.05		
g-CADINENE	0.29		
d-SELINENE	0.03		
CADINA-1,4-DIENE	0.10		
CITRONELLYL BUTYRATE	0.02		
GERANYL PROPIONATE	0.67		
GERANIOL	15.35	<b>10,0 – 18,0</b>	
GERANYL BUTYRATE	1.15	<b>0,7 – 2,0</b>	
OXYDE DE CARYOPHYLLENE	0.14		
CITRONELLYL TIGLATE	0.27		

<b>COMPONENTS</b>	<b>%</b>	<b>Standar</b>	<b>Pharma</b>
Epi-CUBENOL	0.30		
GERANYL TIGLATE	1.24	<b>0,9 – 2,0</b>	
10-épi-g-EUDESOL	4.88	<b>3,0 – 6,0</b>	
ROSIFOLIOL	0.00		
SPATHULENOL	0.23		
PHENYLETHYL TIGLATE	0.87	<b>0,5 – 1,2</b>	
VALERIANOL	0.21		
b-EUDESOL	0.42		
<b>TOTAL</b>	<b>92.24</b>		