NHR ORGANIC OILS
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Certificate of Analysis Sheet
Organic Rose Geranium Essential Oil
(Pelargonium graveolens)

PRODUCT NAME: ROSE GERANIUM, ESSENTIAL OIL ORGANIC
BATCH NUMBER: 140824-2
PRODUCT INCI: PELARGONIUM GRAVEOLENS FLOWER OIL
ORIGIN: MADAGASCAR
CAS NUMBER: 90082-51-2 / 8000-46-2
EINECS NUMBER: 290-140-0

ANALYTICAL DETAILS	**RANGE**	
APPEARANCE	LIQUID	-
COLOUR	LIGHT GREEN - AMBER YELLOW	-
ODOUR	CHARACTERISTIC – SWEET, ROSEY, MINTY	-
SPECIFIC GRAVITY @ 20°C	0.860 – 0.905	0.893
REFRACTIVE INDEX @ 20°C	1.461 – 1.475	1.464
OPTICAL ROTATION (°C)	-16.0 TO 0.0	-10.8

	Components	**%**
1	α-Pinene	0.44
2	Myrecene	0.19
3	Limonene	0.12
4	Linalool	4.75
5	Rose oxide (Z)	1.16
6	Rose oxide (E)	0.50
7	Menthone	1.44
8	Isomenthone	5.07
9	α- terpineol	0.14
10	Citronellol	33.97
11	Neral *	0.49
12	Geraniol	14.06
13	Geranial *	0.50
14	Citronellyl formate	7.61
15	Geranyl formate	2.35
16	Citronellyl acetate	0.46
17	α-Copaene	0.55
18	Geranyl acetate	0.37
19	Guaia-6, 9-diene	0.51
20	Germacrene D	0.73
21	γ-Cadinene	2.12
22	Geranyl butyrate	1.11
23	Phenyl ethyl tiglate	1.48
24	10-Epi-γ-eudesmol	5.06
25	Geranyl tiglate	1.21

STORAGE CONDITIONS
STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

The attached information is considered to be correct at the time the client received this information.
Please be aware that detail can change and we encourage clients to update their records with NHR Organic Oils regularly.
The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations.