

Rose Otto

Rosa damascena

Batch No. TU-59096
Turkey

Monoterpenes	2.44%	Monoterpeneols	62.71%	Sesquiterpenes	2.62%
α pinene	0.91	citronellol	42.57	germacrene d	0.84
terpinen-4-ol	0.47	geraniol	13.21	β caryophyllene	0.53
myrcene	0.42	nerol	6.00	α guaiene	0.50
β pinene	0.22	linalool	0.68	α humulene	0.35
α terpineol	0.20	cis-isogeraniol	0.12	β elemene	0.21
sabinene	0.06	tetradecanol	0.11	α selinene	0.09
γ terpinene	0.05	cis-para-menth-2-en-1-ol	0.02	(E,E) α farnesene	0.07
limonene	0.04			β copaene	0.03
para cymene	0.03				
α terpinene	0.02				
(Z) β ocimene	0.02				
Aldehydes	0.97%	Ethers	0.25%	Sequiterpenols	0.93%
geranal	0.54	trans-rose oxide	0.16	(E,Z) farnesol	0.75
neral	0.43	nerol oxide	0.09	(Z,E) farnesol	0.09
heptanal	0.16			elemol	0.05
nonanal	0.09			(E) nerolidol	0.04
hexadecanal	0.04				
hexanal	0.02				
benzaldehyde	0.02				
Esters	2.95%	Phenols	3.65%	Other	21.12%
geranyl acetate	1.37	methyleugenol	2.25	nonadecane	9.18
citronellyl acetate	1.34	2-phenylethanol	1.4	heneicosane	4.83
ceryl acetate	0.1			nonadecene	2.55
2-phenylethyl tiglate	0.06			tricosane	1.26
2-phenylethyl benzoate	0.06			heptadecane	1.2
benzyl benzoate	0.02			eicosane	1.09
				pentadecane	0.27
				1-hexanol	0.25
				docosane	0.17
				octadecane	0.14
				1-octadecanol	0.09
				hexadecane	0.04
				cis-hex-3-en-1-ol	0.03
				1-pentanol	0.02

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Total Percentage	97.97%			
Number	RT	Area %	Compound Name	Chemical Family
1	3.85	0.02%	1-Pentanol	Aliphatic Alcohol
2	4.48	0.02%	Hexanal	Aliphatic Aldehyde
3	6.00	0.03%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
4	6.43	0.25%	1-Hexanol	Aliphatic Alcohol
5	7.46	0.16%	Heptanal	Aliphatic Aldehyde
6	8.55	0.91%	alpha-Pinene	Monoterpene
7	9.71	0.02%	Benzaldehyde	Simple Phenolic
8	10.14	0.06%	Sabinene	Monoterpene
9	10.31	0.22%	beta-Pinene	Monoterpene
10	10.90	0.42%	Myrcene	Monoterpene
11	12.03	0.02%	alpha-Terpinene	Monoterpene
12	12.37	0.03%	para-Cymene	Monoterpene
13	12.58	0.04%	Limonene	Monoterpene
14	13.43	0.02%	(Z)-beta-Ocimene	Monoterpene
15	13.91	0.05%	gamma-Terpinene	Monoterpene
16	15.93	0.68%	Linalool	Monoterpenol
17	16.13	0.09%	Nonanal	Aliphatic Aldehyde
18	16.42	1.40%	2-Phenylethanol	Simple Phenolic
19	17.00	0.02%	cis-para-Menth-2-en-1-ol	Monoterpenol
20	17.14	0.16%	trans-Rose oxide	Monoterpene Ether
21	18.32	0.09%	Nerol oxide	Monoterpene Ether
22	19.57	0.47%	Terpinen-4-ol	Monoterpenol
23	20.28	0.20%	alpha-Terpineol	Monoterpenol
24	21.76	6.00%	Nerol	Monoterpenol
25	22.10	42.57%	Citronellol	Monoterpenol
26	22.34	0.43%	Neral	Monoterpene Aldehyde
27	22.48	0.12%	cis-Isogeraniol	Monoterpenol
28	23.06	13.21%	Geraniol	Monoterpenol
29	23.66	0.54%	Geranial	Monoterpene Aldehyde
30	27.25	1.34%	Citronellyl acetate	Monoterpene Ester
31	27.64	0.10%	Neryl acetate	Monoterpene Ester
32	28.49	1.37%	Geranyl acetate	Monoterpene Ester
33	28.83	0.21%	beta-Elemene	Sesquiterpene
34	29.40	2.25%	Methyl eugenol	Phenylpropanoid
35	30.01	0.53%	beta-Caryophyllene	Sesquiterpene

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Number	RT	Area %	Compound Name	Chemical Family
36	30.455	0.03%	beta-Copaene	Sesquiterpene
37	30.73	0.50%	alpha-Guaiene	Sesquiterpene
38	31.49	0.35%	alpha-Humulene	Sesquiterpene
39	32.55	0.84%	Germacrene D	Sesquiterpene
40	33.19	0.09%	alpha-Selinene	Sesquiterpene
41	33.54	0.27%	Pentadecane	Alkane
42	33.64	0.07%	(E,E)-alpha-Farnesene	Sesquiterpene
43	35.30	0.05%	Elemol	Sesquiterpenol
44	35.86	0.04%	(E)-Nerolidol	Sesquiterpenol
45	36.64	0.06%	2-Phenylethyl tiglate	Phenolic Ester
46	37.44	0.04%	Hexadecane	Alkane
47	40.26	0.11%	Tetradecanol	Monoterpenol
48	40.80	0.09%	(Z,E)-Farnesol	Sesquiterpenol
49	41.16	1.20%	Heptadecane	Alkane
50	41.64	0.75%	(E,Z)-Farnesol	Sesquiterpenol
51	43.26	0.02%	Benzyl benzoate	Phenolic Ester
52	44.69	0.14%	Octadecane	Alkane
53	45.21	0.04%	Hexadecanal	Sesquiterpene Aldehyde
54	46.26	0.06%	2-Phenylethyl benzoate	Phenolic Ester
55	47.15	2.55%	Nonadecene	Alkene
56	48.12	9.18%	Nonadecane	Alkane
57	51.27	1.09%	Eicosane	Alkane
58	53.98	0.09%	1-Octadecanol	Diterpenol
59	54.37	4.83%	Heneicosane	Alkane
60	57.19	0.17%	Docosane	Alkane
61	58.71	1.26%	Tricosane	Alkane

- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
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