



Essential Oil University

GC/MS Report

Item	Lot
Rose EO	3AH
<i>Rosa damascena</i>	
Date	Analyst
7/11/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Rose EO, meets the expected chemical profile for authentic essential oil of *Rosa damascena*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.



Sample Information

Company: Revive
Sample Name: Rose EO
Botanical Name: Rosa damascena
Lot Number: 3AH
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Bulgaria
Analysis Date: 7/11/2025
Manufacture Date: May 2025

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra
Injection Type: Split
Split Ratio: 24.4

Column Type: ZB-5
Injection Volume: 0.1 µL
Temperature Program: 2C/min

Physical Data

ANALYSIS

Optical Rotation @20°C
Refractive Index @20°C
Specific Gravity @20°C

METHOD

USP[781]
USP[831]
USP[841]

RESULTS

-1.92
1.46229
0.86192



Ret. Time	Component	Ret. Idx.	Conc. %	
3.035	Ethanol	622	0.12%	
4.740	Pentanal	695	0.01%	
5.379	Pentanol	722	0.01%	
5.459	2-Methylbutanol	726	0.01%	
9.041	Hex-(3Z)-enol	846	0.01%	
9.512	Hexanol	857	0.05%	
11.054	Heptanal	896	0.04%	
12.754	alpha-Pinene	927	0.27%	
14.961	Sabinene	966	0.03%	
15.272	beta-Pinene	971	0.06%	
15.614	6-Methyl-hept-5-en-2-one	977	0.02%	
15.900	Myrcene	982	0.16%	
17.654	alpha-Terpinene	1011	0.01%	
18.444	Limonene	1023	0.02%	IFRA
18.647	1,8-Cineole	1026	0.01%	
18.841	cis-beta-Ocimene	1029	0.01%	
19.535	trans-beta-Ocimene	1039	0.02%	
20.337	gamma-Terpinene	1051	0.03%	
21.143	trans-Sabinene hydrate	1063	0.02%	
22.162	Terpinolene	1079	0.01%	
22.570	Rosefuran	1085	0.02%	
23.110	Linalool	1093	0.39%	IFRA
23.475	Nonanal	1098	0.03%	
23.888	Phenylethyl alcohol	1104	0.93%	
24.959	trans-Rose oxide	1120	0.08%	
26.709	Nerol oxide	1145	0.04%	
28.090	Unidentified	1165	0.01%	
28.729	Terpinen-4-ol	1174	0.2%	
29.734	alpha-Terpineol	1188	0.13%	
30.296	Unidentified	1196	0.01%	
31.207	7-Methyl-3-methylene-6-octen-1-ol	1209	0.03%	
31.809	Nerol	1218	12.06%	
32.036	Citronellol	1221	25.37%	IFRA
32.105	Isogeraniol isomer	1222	0.2%	
32.694	Neral	1231	0.44%	IFRA
32.819	Isogeraniol	1233	0.1%	
33.641	Geraniol	1245	19.89%	IFRA
33.753	2-Phenethyl acetate	1246	0.2%	
34.398	Unidentified	1256	0.01%	
34.699	Geranial	1260	0.6%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
37.445	Unidentified	1300	0.01%	
38.294	Methyl geranate	1313	0.04%	
40.173	Citronellyl acetate	1341	0.25%	IFRA
40.256	Eugenol	1342	0.77%	IFRA
40.750	Neryl acetate	1350	0.06%	
42.035	Geranyl acetate	1369	0.65%	
42.451	beta-Bourbonene	1376	0.05%	
42.814	beta-Elemene	1381	0.07%	
43.430	Methyleugenol	1391	1.57%	IFRA
44.745	beta-Caryophyllene	1411	0.36%	
45.398	beta-Copaene	1421	0.02%	
45.510	Unidentified	1423	0.04%	
45.728	alpha-Guaiene	1427	0.25%	
46.815	Unidentified	1444	0.01%	
46.995	alpha-Humulene	1447	0.2%	
48.585	Germacrene D	1472	0.66%	
48.807	Phenylethyl-2-methylbutyrate	1476	0.02%	
49.085	beta-Selinene	1480	0.03%	
49.498	Aciphyllene	1487	0.09%	
49.682	Unidentified	1490	0.02%	
49.840	Unidentified	1492	0.32%	
49.860	Unidentified	1492	0.15%	
50.006	trans,trans-alpha-Farnesene	1495	0.07%	
50.438	Unidentified	1502	0.01%	
50.846	delta-Cadinene	1509	0.03%	
52.619	Elemol	1538	0.1%	
53.369	trans-Nerolidol	1551	0.03%	
54.634	2-Phenylethyl tiglate	1572	0.03%	
54.795	Unidentified	1575	0.01%	
55.346	Ethyl dodecanoate	1584	0.01%	
55.772	Hexadecane	1591	0.06%	
56.971	Unidentified	1612	0.01%	
57.460	Unidentified	1620	0.02%	
57.500	gamma-Eudesmol	1621	0.07%	
58.176	Unidentified	1633	0.01%	
58.494	Unidentified	1639	0.01%	
58.817	alpha-Eudesmol	1644	0.18%	
58.895	Pogostol	1646	0.05%	
60.102	Unidentified	1667	0.22%	
60.165	Unidentified	1668	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
60.877	Farnesol isomer	1681	0.1%	IFRA
61.025	Tetradecanol	1683	0.01%	
61.216	2-Pentadecanone	1687	0.01%	
61.430	Heptadecane	1691	2.29%	
61.798	Farnesol isomer	1697	0.02%	IFRA
62.126	(2E,6E)-Farnesol	1703	1.23%	IFRA
62.751	Unidentified	1715	0.01%	
63.282	(E,E)-Farnesal	1724	0.03%	IFRA
63.399	Unidentified	1727	0.02%	
63.922	Unidentified	1736	0.04%	
64.867	Benzyl benzoate	1754	0.04%	IFRA
65.446	Octadec-1-ene	1765	0.04%	
66.785	Octadecane	1790	0.19%	
67.610	Hexadecanal	1805	0.01%	
69.432	Phenethyl benzoate	1841	0.04%	
69.605	Unidentified	1844	0%	
70.156	Unidentified	1855	0.05%	
70.554	Nonadecene	1862	3.54%	
70.758	Unidentified	1866	0.02%	
70.922	Unidentified	1870	0.01%	
71.257	Unidentified	1876	0.03%	
71.566	Unidentified	1882	0.03%	
71.953	Nonadecane	1890	13.79%	
72.090	Unidentified	1892	0.03%	
72.377	Unidentified	1898	0.02%	
72.766	Unidentified	1906	0.01%	
72.931	Unidentified	1909	0.03%	
75.451	Eicosene	1961	0.09%	
76.380	Unidentified	1980	0.01%	
76.504	Unidentified	1982	0.01%	
76.775	Eicosane	1988	1.23%	
77.707	Unidentified	2007	0.01%	
79.091	Unidentified	2037	0.02%	
79.676	Unidentified	2049	0.03%	
80.146	Tricosene isomer	2060	0.11%	
80.914	Tricosene isomer	2076	0.16%	
81.044	Unidentified	2079	0.03%	
81.191	Docosene isomer	2082	0.11%	
81.449	Heneicosane	2087	5.94%	
81.748	Unidentified	2094	0.05%	



Ret. Time	Component	Ret. Idx.	Conc. %	
83.227	Unidentified	2127	0.02%	
85.894	Docosane	2186	0.13%	
88.350	Unidentified	2243	0.02%	
89.750	Tricos-(9Z)-ene	2276	0.13%	
90.021	Unidentified	2282	0.02%	
90.165	Tricosane	2285	1.36%	
90.415	Unidentified	2291	0.04%	
91.800	Unidentified	2324	0.01%	
94.271	Unidentified	2384	0.05%	
97.889	Unidentified	2475	0.02%	
98.216	Pentacosane	2483	0.31%	
98.375	Unidentified	2487	0.01%	
102.015	Unidentified	2582	0.01%	
105.676	Heptacosane	2681	0.2%	
112.623	Unidentified	2879	0.02%	

Total Identified Compounds **98.46 %**

