



# Essential Oil University

## GC/MS Report

| Item                                                 | Lot                         |
|------------------------------------------------------|-----------------------------|
| <b>Juniper Berry EO</b><br><i>Juniperus communis</i> | <b>7F</b>                   |
| Date                                                 | Analyst                     |
| <b>10/16/2025</b>                                    | <b>Dr. Robert S. Pappas</b> |

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**The analysis of this batch sample, Juniper Berry EO, meets the expected chemical profile for authentic essential oil of *Juniperus communis*. 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:** Juniper Berry EO**Botanical Name:** Juniperus communis**Lot Number:** 7F**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Serbia**Analysis Date:** 10/16/2025**Manufacture Date:** September 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

-4.16

1.47418

0.87090



| Ret. Time | Component             | Ret. Idx. | Conc. % |               |
|-----------|-----------------------|-----------|---------|---------------|
| 11.444    | 2,6-Dimethyl-4-octene | 904       | 0.02%   |               |
| 11.996    | Hashishene            | 913       | 0.01%   |               |
| 12.118    | Tricyclene            | 916       | 0.14%   |               |
| 12.273    | alpha-Thujene         | 918       | 0.26%   |               |
| 12.712    | alpha-Pinene          | 926       | 43.97%  | ALLERGEN      |
| 13.504    | alpha-Fenchene        | 940       | 0.04%   |               |
| 13.602    | Camphene              | 942       | 0.42%   |               |
| 13.804    | Thuja-2,4(10)diene    | 945       | 0.02%   |               |
| 14.890    | Sabinene              | 964       | 15.13%  |               |
| 15.196    | beta-Pinene           | 970       | 8.22%   | ALLERGEN      |
| 15.509    | Camphene isomer       | 975       | 0.02%   |               |
| 15.685    | 3-para-Menthene       | 978       | 0.01%   |               |
| 15.818    | Myrcene               | 981       | 3.33%   | PROP. 65      |
| 15.885    | Unidentified          | 982       | 0.05%   |               |
| 16.744    | Pseudolimonene        | 997       | 0.19%   |               |
| 16.905    | alpha-Phellandrene    | 1000      | 0.02%   |               |
| 17.040    | delta-3-Carene        | 1002      | 0.13%   |               |
| 17.571    | alpha-Terpinene       | 1010      | 0.07%   | ALLERGEN      |
| 18.038    | para-Cymene           | 1017      | 0.64%   |               |
| 18.349    | Limonene              | 1021      | 9.38%   | ALLERGEN IFRA |
| 18.454    | beta-Phellandrene     | 1023      | 0.01%   |               |
| 18.555    | 1,8-Cineole           | 1025      | 0%      |               |
| 19.433    | trans-beta-Ocimene    | 1038      | 0.01%   |               |
| 20.231    | gamma-Terpinene       | 1050      | 0.91%   |               |
| 22.050    | Terpinolene           | 1077      | 0.62%   | ALLERGEN      |
| 22.270    | Fenchone              | 1080      | 0.01%   |               |
| 22.363    | para-Cymenene         | 1082      | 0.02%   |               |
| 22.983    | alpha-Pinene oxide    | 1091      | 0.05%   |               |
| 23.670    | Unidentified          | 1101      | 0.05%   |               |
| 25.293    | cis-Limonene oxide    | 1124      | 0.01%   |               |
| 25.510    | Terpin-3-en-1-ol      | 1128      | 0.03%   |               |
| 25.838    | trans-Pinocarveol     | 1132      | 0.04%   |               |
| 25.983    | Epoxyterpinolene      | 1134      | 0.02%   |               |
| 26.159    | trans-Verbenol        | 1137      | 0.04%   |               |
| 27.993    | Borneol               | 1163      | 0.02%   |               |
| 28.603    | Terpinen-4-ol         | 1172      | 4.94%   |               |
| 29.018    | para-Cymen-8-ol       | 1178      | 0.03%   |               |
| 29.599    | alpha-Terpineol       | 1186      | 0.97%   | ALLERGEN      |
| 31.752    | Citronellol           | 1217      | 0.01%   | ALLERGEN IFRA |
| 33.674    | Unidentified          | 1245      | 0.04%   |               |



| Ret. Time | Component                 | Ret. Idx. | Conc. % |               |
|-----------|---------------------------|-----------|---------|---------------|
| 35.710    | Bornyl acetate            | 1275      | 0.14%   |               |
| 35.865    | trans-Anethole            | 1277      | 0.02%   | ALLERGEN      |
| 36.591    | Unidentified              | 1288      | 0.01%   |               |
| 39.845    | alpha-Terpinyl acetate    | 1336      | 0.4%    |               |
| 40.120    | Eugenol                   | 1340      | 0.02%   | ALLERGEN IFRA |
| 41.786    | alpha-Copaene             | 1366      | 0.02%   |               |
| 42.575    | Unidentified              | 1378      | 0.02%   |               |
| 42.674    | beta-Elemene              | 1379      | 0.02%   |               |
| 44.342    | alpha-Cedrene             | 1405      | 0.19%   | IFRA          |
| 44.606    | beta-Caryophyllene        | 1409      | 3%      | ALLERGEN      |
| 44.895    | beta-Cedrene              | 1413      | 0.03%   | IFRA          |
| 45.223    | gamma-Elemene             | 1419      | 0.03%   |               |
| 45.577    | cis-Thujopsene            | 1424      | 0.04%   |               |
| 46.476    | Humulen-(v1)              | 1439      | 0.08%   |               |
| 46.860    | alpha-Humulene            | 1445      | 2.4%    |               |
| 47.129    | Alloaromodendrene         | 1449      | 0.01%   |               |
| 47.880    | cis-Murrola-4(14),5-diene | 1461      | 0.02%   |               |
| 48.063    | gamma-Murolene            | 1464      | 0.03%   |               |
| 48.447    | Germacrene D              | 1470      | 1.01%   |               |
| 49.531    | alpha-Murolene            | 1487      | 0.03%   |               |
| 50.114    | Unidentified              | 1496      | 0.02%   |               |
| 50.290    | alpha-Alaskene            | 1499      | 0.05%   |               |
| 50.406    | gamma-Cadinene            | 1501      | 0.07%   |               |
| 50.713    | delta-Cadinene            | 1506      | 1.21%   |               |
| 50.902    | cis-Calamenene            | 1509      | 0.02%   |               |
| 52.486    | Elemol                    | 1536      | 0.01%   |               |
| 53.136    | Germacrene B              | 1547      | 0.03%   |               |
| 54.491    | Caryophyllene oxide       | 1570      | 0.09%   |               |
| 55.320    | allo-Cedrol               | 1584      | 0.06%   |               |
| 56.056    | Cedrol                    | 1596      | 1.02%   |               |
| 57.769    | Unidentified              | 1626      | 0.04%   |               |
| 80.522    | Abietadiene               | 2068      | 0.01%   |               |

Total Identified Compounds **99.82 %**



TIC  
26,917,003

