**Table 1.** Chemical composition of Essential oil of *Maesa japonica*.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | | RT | | Compound | | RICal | | RILib | | Area (%) | Identification method | | | CAS ID | |
| 1 | | 11.097 | | (*E*)-Linalool furanoxide | | 1092 | | 1086 | | 0.10% | RRI, MS | | | 34995-77-2 | |
| 2 | | 11.436 | | Linalool | | 1104 | | 1099 | | 2.41% | RRI, MS | | | 78-70-6 | |
| 3 | | 13.732 | | α-Terpineol | | 1194 | | 1189 | | 0.10% | RRI, MS | | | 98-55-5 | |
| 4 | | 13.825 | | Methyl salicylate | | 1197 | | 1192 | | 0.09% | RRI, MS | | | 119-36-8 | |
| 5 | | 16.465 | | Undecanal | | 1310 | | 1307 | | 0.04% | RRI, MS | | | 112-44-7 | |
| 6 | | 17.125 | | δ-EIemene | | 1341 | | 1338 | | 0.11% | RRI, MS | | | 20307-84-0 | |
| 7 | | 17.404 | | α-Cubebene | | 1353 | | 1351 | | 1.16% | RRI, MS | | | 17699-14-8 | |
| 8 | | 17.524 | | α-Longipinene | | 1359 | | 1353 | | 0.14% | RRI, MS | | | 5989-08-2 | |
| 9 | | 17.758 | | Cyclosativene | | 1369 | | 1368 | | 0.57% | RRI, MS | | | 22469-52-9 | |
| 10 | | 17.889 | | Ylangene | | 1375 | | 1372 | | 1.41% | RRI, MS | | | 14912-44-8 | |
| 11 | | 18.031 | | Copaene | | 1381 | | 1376 | | 9.12% | RRI, MS | | | 3856-25-5 | |
| 12 | | 18.249 | | Isocomene | | 1390 | | 1386 | | 0.38% | RRI, MS | | | 65372-78-3 | |
| 13 | | 18.347 | | β-Elemene | | 1395 | | 1391 | | 1.24% | RRI, MS | | | 515-13-9 | |
| 14 | | 18.424 | | Sativene | | 1398 | | 1396 | | 0.25% | RRI, MS | | | 3650-28-0 | |
| 15 | | 18.648 | | β-Longipinene | | 1409 | | 1403 | | 0.19% | RRI, MS | | | 41432-70-6 | |
| 16 | | 18.753 | | Acora-3(7),14-diene | | 1414 | | 1408 | | 0.94% | RRI, MS | | | 55732-78-0 | |
| 17 | | 18.969 | | Caryophyllene | | 1425 | | 1419 | | 12.03% | RRI, MS | | | 87-44-5 | |
| 18 | | 19.144 | | β-Copaene | | 1434 | | 1432 | | 1.42% | RRI, MS | | | 18252-44-3 | |
| 19 | | 19.264 | | Aromandendrene | | 1439 | | 1440 | | 1.01% | RRI, MS | | | 489-39-4 | |
| 20 | | 19.368 | | γ-Patchoulene | | 1444 | | 1441 | | 3.85% | RRI, MS | | | 508-55-4 | |
| 21 | | 19.439 | | Guaia-6,9-diene | | 1448 | | 1443 | | 0.87% | RRI, MS | | | 36577-33-0 | |
| 22 | | 19.559 | | α-Himachalene | | 1454 | | 1448 | | 0.57% | RRI, MS | | | 3853-83-6 | |
| 23 | | 19.684 | | Humulene | | 1460 | | 1454 | | 3.95% | RRI, MS | | | 6753-98-6 | |
| 24 | | 19.799 | | Alloaromadendrene | | 1465 | | 1461 | | 0.99% | RRI, MS | | | 25246-27-9 | |
| 25 | | 19.853 | | (*Z*)-Muurola-4(15),5-diene | | 1468 | | 1467 | | 0.35% | RRI, MS | | | 157477-72-0 | |
| 26 | | 19.930 | | Acoradiene | | 1471 | | 1471 | | 0.32% | RRI, MS | | | 24048-44-0 | |
| 27 | | 19.979 | | γ-Gurjunene | | 1474 | | 1473 | | 0.05% | RRI, MS | | | 22567-17-5 | |
| 28 | | 20.170 | | γ-Muurolene | | 1483 | | 1477 | | 5.40% | RRI, MS | | | 30021-74-0 | |
| 29 | | 20.224 | | α-Amorphene | | 1485 | | 1483 | | 0.23% | RRI, MS | | | 20085-19-2 | |
| 30 | | 20.284 | | α-Curcumene | | 1488 | | 1483 | | 0.59% | RRI, MS | | | 644-30-4 | |
| 31 | | 20.371 | | β-Eudesmene | | 1492 | | 1486 | | 4.45% | RRI, MS | | | 17066-67-0 | |
| 32 | | 20.557 | | α-Selinene | | 1501 | | 1494 | | 5.99% | RRI, MS | | | 473-13-2 | |
| 33 | | 20.622 | | α-Muurolene | | 1504 | | 1499 | | 1.13% | RRI, MS | | | 10208-80-7 | |
| 34 | | 20.731 | | α-Bulnesene | | 1510 | | 1505 | | 0.23% | RRI, MS | | | 3691-11-0 | |
| 35 | | 20.791 | | β-Bisabolene | | 1513 | | 1509 | | 1.46% | RRI, MS | | | 495-61-4 | |
| 36 | | 20.928 | | γ-Cadinene | | 1520 | | 1513 | | 3.44% | RRI, MS | | | 39029-41-9 | |
| 37 | | 20.982 | | 7-Epi-α-selinene | | 1523 | | 1517 | | 0.10% | RRI, MS | | | 123123-37-5 | |
| 38 | | 21.119 | | δ-Cadinene | | 1530 | | 1524 | | 6.79% | RRI, MS | | | 483-76-1 | |
| 39 | | 21.342 | | (*Z*)-Calamenene | | 1542 | | 1531 | | 6.94% | RRI, MS | | | 72937-55-4 | |
| 40 | | 21.495 | | α-Calacorene | | 1550 | | 1542 | | 1.21% | RRI, MS | | | 21391-99-1 | |
| 41 | | 21.632 | | γ-Dehydro-ar-himachalene | | 1557 | | 1544 | | 0.45% | RRI, MS | | | 51766-65-5 | |
| 42 | | 21.883 | | (*E*)-Nerolidol | | 1569 | | 1564 | | 0.85% | RRI, MS | | | 40716-66-3 | |
| 43 | | 22.019 | | Dodecanoic acid | | 1576 | | 1567 | | 0.27% | RRI, MS | | | 143-07-7 | |
| 44 | | 22.204 | | β-Spathulenol | | 1585 | | 1576 | | 1.00% | RRI, MS | | | 6750-60-3 | |
| 45 | | 22.303 | | Caryophyllene oxide | | 1590 | | 1581 | | 3.06% | RRI, MS | | | 1139-30-6 | |
| 46 | | 22.488 | | Globulol | | 1599 | | 1591 | | 0.24% | RRI, MS | | | 489-41-8 | |
| 47 | | 22.586 | | Isoaromadendrene epoxide | | 1605 | | 1603 | | 0.10% | RRI, MS | | | — | |
| 48 | | 22.663 | | Humulene epoxide I | | 1609 | | 1604 | | 0.14% | RRI, MS | | | 19888-33-6 | |
| 49 | | 22.788 | | Humulene oxide II | | 1616 | | 1606 | | 0.84% | RRI, MS | | | 19888-34-7 | |
| 50 | | 23.028 | | α-Corocalene | | 1629 | | 1623 | | 0.14% | RRI, MS | | | 20129-39-9 | |
| 51 | | 23.137 | | Ledene oxide-(II) | | 1635 | | 1631 | | 0.71% | RRI, MS | | | — | |
| 52 | | 23.235 | | Caryophylladienol II | | 1640 | | 1637 | | 0.31% | RRI, MS | | | 19431-79-9 | |
| 53 | | 23.312 | | Caryophylla-4(14),8(15)-dien-5-ol | | 1644 | | 1644 | | 0.49% | RRI, MS | | | 19431-80-2 | |
| 54 | | 23.383 | | δ-Cadinol | | 1648 | | 1645 | | 0.40% | RRI, MS | | | 19435-97-3 | |
| 55 | | 23.585 | | β-Acorenol | | 1659 | | 1649 | | 0.12% | RRI, MS | | | 28400-11-5 | |
| 56 | | 23.634 | | α-Cadinol | | 1662 | | 1653 | | 0.28% | RRI, MS | | | 481-34-5 | |
| 57 | | 23.699 | | Calarene epoxide | | 1665 | | — | | 0.29% | MS | | | 68926-75-0 | |
| 58 | | 24.005 | | Cadalene | | 1681 | | 1674 | | 1.15% | RRI, MS | | | 483-78-3 | |
| 59 | | 24.076 | | Aromadendrene oxide 2 | | 1685 | | 1678 | | 0.11% | RRI, MS | | | 85710-39-0 | |
| 60 | | 24.147 | | α-Bisabolol | | 1689 | | 1684 | | 0.32% | RRI, MS | | | 515-69-5 | |
| 61 | | 24.217 | | 14-Hydroxycaryophyllene | | 1692 | | 1686 | | 0.16% | RRI, MS | | | 50277-33-3 | |
| 62 | | 24.305 | | 8-Cedren-13-ol | | 1697 | | 1688 | | 0.08% | RRI, MS | | | 18319-35-2 | |
| 63 | | 24.643 | | Murolan-3,9(11)-diene-10-peroxy | | 1717 | | — | | 0.05% | MS | | | — | |
| 64 | | 24.845 | | Vetiselinenol | | 1728 | | 1723 | | 0.07% | RRI, MS | | | 28102-68-3 | |
| 65 | | 25.401 | | α-Cyperone | | 1759 | | 1755 | | 0.17% | RRI, MS | | | 473-08-5 | |
| 66 | | 25.750 | | Squamulosone | | 1779 | | 1771 | | 0.04% | RRI, MS | | | 34413-94-0 | |
| 67 | | 25.920 | | Isovalencenol | | 1788 | | 1788 | | 0.06% | RRI, MS | | | 22387-74-2 | |
| 68 | | 26.918 | | Perhydrofarnesyl acetone | | 1847 | | 1844 | | 0.86% | RRI, MS | | | 502-69-2 | |
| 69 | | 27.360 | | Isobutyl phthalate | | 1878 | | 1870 | | 0.13% | RRI, MS | | | 84-69-5 | |
| 70 | | 28.167 | | Farnesyl acetone | | 1922 | | 1918 | | 0.09% | RRI, MS | | | 1117-52-8 | |
| 71 | | 28.604 | | Isophytol | | 1950 | | 1948 | | 0.06% | RRI, MS | | | 505-32-8 | |
| 72 | | 29.018 | | *n*-Hexadecanoic acid | | 1975 | | 1968 | | 2.76% | RRI, MS | | | 57-10-3 | |
| 73 | | 31.184 | | Phytol | | 2115 | | 2114 | | 0.25% | RRI, MS | | | 150-86-7 | |
| 74 | | 31.56 | | Linoleic acid | | 2141 | | 2133 | | 0.68% | RRI, MS | | | 60-33-3 | |
| 75 | | 32.215 | | Hexadecanamide | | 2185 | | 2184 | | 0.08% | RRI, MS | | | 629-54-9 | |
| 76 | | 34.779 | | Oleamide | | 2368 | | 2386 | | 0.53% | RRI, MS | | | 301-02-0 | |
|  | |  | | Total identified | |  | |  | |  |  | | |  | |
|  | |  | | Sesquiterpene hydrocarbons | |  | |  | |  |  | | |  | |
|  | |  | | Oxygenated sesquiterpene | |  | |  | |  |  | | |  | |
|  | |  | | Oxygenated monoterpenes | |  | |  | |  |  | | |  | |
|  | |  | | Alcohol | |  | |  | |  |  | | |  | |
|  | |  | | Acid | |  | |  | |  |  | | |  | |
|  | |  | | Aldehyde | |  | |  | |  |  | | |  | |
|  |  | | others | |  | |  | | 14.75% | | |  |  | |

Concentration calculated from total ion chromatogram; RIa: Calculated retention index. RIb: Retention index obtained from mass spectral database. RRI: Relative retention indices calculated against n-alkanes; Identification method based on the relative retention indices (RRI) of authentic compounds on the HP-5MS column; MS, identified based on computer matching of the mass spectra with Nist/EPA/NIH 2020 Mass Spectral Database and comparison with literature data.