Supplementary Material S1. Identification of volatile organic compounds.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Compounds |  |  |  | | |  |
|  | VF-Waxa | HP-5a | TIb | QI1b | QI2b | IDc |
| *Alcohols* |  |  |  |  |  |  |
| 1-penten-3-ol | 818 |  | 57 | 41 | 71 | MS,ST |
| Pentanol | 901 | 743 | 55 | 41 | 70 | MS,ST |
| Hexanol | 1007 | 827 | 56 | 69 | 83 | MS,ST |
| 1-Octen-3-ol | 1116 | 936 | 95 | 57 | 81 | MS,ST |
| Heptanol | 1121 | 929 | 70 | 56 | 83 | MS,ST |
| Octanol | 1235 | 1048 | 69 | 56 | 83 | MS,ST |
| 2-Octen-1-ol | 1296 | 1043 | 81 | 57 | 67 | MS,ST |
|  |  |  |  |  |  |  |
| *Organic Acids* |  |  |  |  |  |  |
| Hexanoate vinyl ester | 979 | 946 | 99 | 43 | 71 | MS |
| Acetic acid | 1140 |  | 43 | 45 | 60 | MS |
| Butanoic acid | 1327 | 1194 | 60 | 73 | 42 | MS |
| Hexanoic acid | 1542 |  | 60 | 73 | 87 | MS,ST |
| Heptanoic acid | 1646 |  | 60 | 73 | 101 | MS |
| Octanoic acid | 1710 |  | 60 | 73 | 115 | MS |
| Nonanoic acid | 1746 |  | 73 | 115 | 129 | MS,ST |
| Decanoic acid | 1769 |  | 73 | 129 | 143 | MS |
|  |  |  |  |  |  |  |
| *Ketones* |  |  |  |  |  |  |
| 2-Heptanone | 831 | 848 | 43 | 58 | 71 | MS |
| 2-Octanone | 932 | 962 | 43 | 58 | 71 | MS,ST |
| 1-Octen-3-one | 946 |  | 55 | 70 | 97 | MS |
| 2,3-Octadione | 986 | 1067 | 43 | 55 | 71 | MS |
| 3-Octen-2-one | 1059 | 1008 | 55 | 43 | 111 | MS |
| 3,5-Octadien-2-one | 1239 | 1074 | 95 | 81 | 109 | MS |
|  |  |  |  |  |  |  |
| *Aldehydes* |  |  |  |  |  |  |
| 3-methyl-Butanal | 669 | 761 | 57 | 43 | 71 | MS,ST |
| Pentanal | 709 | 743 | 58 | 43 | 69 | MS,ST |
| Hexanal | 761 | 780 | 67 | 72 | 83 | MS,ST |
| Heptanal | 835 | 857 | 70 | 81 | 96 | MS,ST |
| 2-Hexenal | 863 |  | 83 | 55 | 69 | MS |
| Octanal | 936 | 966 | 69 | 95 | 110 | MS,ST |
| 2-Heptenal | 967 | 913 | 83 | 57 | 69 | MS |
| Nonanal | 1045 | 1085 | 57 | 81 | 95 | MS,ST |
| 2-Octenal | 1083 | 1032 | 83 | 55 | 70 | MS,ST |
| 2,4-Heptadienal | 1154 | 1202 | 81 | 67 | 95 | MS |
| Decanal | 1166 | 1218 | 57 | 70 | 110 | MS |
| 2-Nonenal | 1197 | 1157 | 83 | 55 | 96 | MS,ST |
| 2-Decenal | 1317 | 1286 | 70 | 57 | 97 | MS,ST |
| 2,4-Octadienal | 1336 | 1225 | 81 | 67 | 79 | MS |
| 2,4-Nonadienal | 1374 | 1325 | 81 | 67 | 95 | MS |
| 2-Undecenal | 1459 | 1295 | 57 | 41 | 70 | MS |
| 2,4-Decadienal | 1485 | 1353 | 81 | 67 | 95 | MS,ST |
| Benzaldehyde | 1185 | 918 | 77 | 51 | 105 | MS |
|  |  |  |  |  |  |  |
| *Furans* |  |  |  |  |  |  |
| 2-ethyl-Furan | 700 |  | 81 | 53 | 96 | MS |
| 2n-butyl-Furan | 790 | 852 | 81 | 53 | 124 | MS |
| 2-pentyl-Furan | 877 | 952 | 81 | 82 | 95 | MS |
| 2n-heptyl-Furan | 1592 |  | 81 | 82 | 95 | MS |
|  |  |  |  |  |  |  |
| *Benzenes* |  |  |  |  |  |  |
| Toluene | 733 | 757 | 91 | 65 | 92 | MS,ST |
| Benzene-1,3bis(trifluoromethyl) | 1078 | 1276 | 175 | 57 | 147 | MS |
|  |  |  |  |  |  |  |
| *Terpenoids* |  |  |  |  |  |  |
| Limonene | 726 |  | 93 | 79 | 121 | MS |

a LRI: Linear retention indexes, calculated in relation to the retention time of an n-alkane (C5–C20) series in two different columns.

b TI/QI: Primary (TI) and secondary (QI) ions used for identification and quantification.

c Peak identification: ST, comparison of spectra and retention time with commercial standards; MS, tentatively identified by spectra comparison using the NIST/EPA/NIH (NIST 11) Library.