Table S3 Volatile component of alcohols in 9 varieties of muskmelon

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Compound Name | Component RT | Formula | CAS | Relative content/% | | | | | | | | |
| GTMB | XZM-1 | ZZX | NSM | HMC | BPC | XZM-25 | JX | 20-123 |
| Ethanol | 1.28 | C2H6O | 64-17-5 |  |  | 1.28 | 1.87 |  |  |  |  |  |
| Methyl Alcohol | 2.80 | CH4O | 67-56-1 | 9.17 | 1.23 |  | 3.02 |  |  |  | 1.73 |  |
| 2-methyl-1-Butanol | 3.88 | C5H12O | 137-32-6 |  |  | 0.18 |  |  |  |  |  |  |
| 2-ethoxy-Ethanol | 4.91 | C4H10O2 | 110-80-5 |  |  |  |  | 0.41 |  |  |  |  |
| 3-Furanmethanol | 7.87 | C5H6O2 | 4412-91-3 |  |  |  |  |  |  |  | 4.55 |  |
| 2-Furanmethanol | 8.12 | C5H6O2 | 98-00-0 | 2.05 |  |  |  |  |  |  |  |  |
| 1-Hexanol | 8.19 | C6H14O | 111-27-3 |  |  | 0.23 |  |  |  |  |  |  |
| (1S,2R)-(+)-2-Amino-1,2-diphenylethanol | 11.81 | C14H15NO | 23364-44-5 |  |  |  | 1.35 |  |  |  |  |  |
| 1,4-Butanediol | 12.22 | C4H10O2 | 110-63-4 |  |  |  |  |  |  | 0.41 |  | 0.25 |
| 2-ethyl-1-Hexanol | 13.90 | C8H18O | 104-76-7 |  | 3.28 | 1.52 |  |  |  |  |  |  |
| 2-Propyl-1-pentanol | 13.91 | C8H18O | 58175-57-8 |  |  |  |  |  |  |  |  | 2.30 |
| 1-phenyl-1,2-Propanediol | 14.17 | C9H12O2 | 1855-09-0 |  |  |  |  |  | 2.36 |  |  | 1.07 |
| (R\*,R\*)-(.+/-.)-1,2-diphenyl-1,2-Ethanediol | 14.17 | C14H14O2 | 655-48-1 |  |  |  |  |  |  | 1.02 |  |  |
| 1-phenyl-1,2-Propanediol | 14.26 | C9H12O2 | 1855-09-0 | 0.33 |  |  |  |  |  |  |  |  |
| 3-methyl-1-Heptanol | 14.34 | C8H18O | 1070-32-2 |  |  | 0.44 |  |  |  |  |  |  |
| 5-Methyl-1-heptanol | 14.34 | C8H18O | 7212-53-5 |  |  | 0.44 |  |  |  |  |  |  |
| (S)-(+)-5-Methyl-1-heptanol | 14.41 | C8H18O | 57803-73-3 |  | 1.66 |  |  | 1.02 | 2.66 |  |  | 8.24 |
| 1-Octanol | 14.84 | C8H18O | 111-87-5 |  | 2.17 |  |  |  | 1.67 | 25.57 |  | 1.83 |
| 4-Nonanol | 16.55 | C9H20O | 5932-79-6 |  | 1.26 | 1.84 | 2.76 | 3.27 | 1.80 | 7.31 |  | 4.03 |
| 2-methyl-3-Octanol | 16.55 | C9H20O | 26533-34-6 |  | 1.26 |  |  |  |  |  |  |  |
| 2-Nonanol | 16.55 | C9H20O | 628-99-9 | 1.21 | 11.90 | 12.81 | 10.58 | 34.96 | 7.63 | 15.10 | 6.90 | 15.43 |
| 3-Nonanol | 16.69 | C9H20O | 624-51-1 |  | 1.40 | 1.13 | 1.25 | 3.93 | 0.86 | 1.45 | 0.76 | 1.64 |
| 4-methyl-1-Heptanol | 17.34 | C8H18O | 817-91-4 |  | 0.67 |  |  |  |  |  |  |  |
| 2-Methyl-2-nonanol | 17.55 | C10H22O | 10297-57-1 |  | 0.67 |  |  |  |  |  |  |  |
| 3-(1,3-dimethylbutoxy)-2-Butanol | 17.58 | C10H22O2 | 74810-45-0 |  |  |  |  |  | 1.21 | 1.84 |  |  |
| 2-methyl-1-Octanol | 17.82 | C9H20O | 818-81-5 |  |  | 0.36 | 0.44 | 0.87 |  |  |  |  |
| 3-ethyl-3-Octanol | 18.01 | C10H22O | 2051-32-3 |  |  | 0.80 |  | 1.23 |  |  |  |  |
| 4-Ethyl-4-heptanol | 18.10 | C9H20O | 597-90-0 |  |  |  | 0.53 |  | 0.38 | 0.68 |  | 0.72 |
| 7-Tridecanol | 18.11 | C13H28O | 927-45-7 |  |  |  |  | 0.35 |  |  |  |  |
| 4-Decanol | 18.14 | C10H22O | 2051-31-2 |  | 1.31 | 2.50 | 2.77 | 3.01 |  | 1.47 |  | 2.81 |
| 2-Nonyn-1-ol | 18.21 | C9H16O | 5921-73-3 |  | 0.63 |  |  |  |  |  |  |  |
| (E,Z)-3,6-Nonadien-1-ol | 18.21 | C9H16O | 56805-23-3 |  | 0.63 | 2.12 |  |  |  |  | 0.55 |  |
| 2,6-dimethyl-3-Heptanol | 18.34 | C9H20O | 19549-73-6 |  |  |  |  |  | 1.65 |  | 0.59 |  |
| 2,2-dimethyl-3-Octanol | 18.48 | C10H22O | 19841-72-6 |  | 0.62 |  | 1.63 | 1.61 |  | 1.13 |  | 0.54 |
| 2,6-Nonadien-1-ol | 18.64 | C9H16O | 7786-44-9 |  |  | 0.88 |  |  |  |  |  |  |
| 2-Decen-1-ol | 18.66 | C10H20O | 22104-80-9 |  | 10.21 |  |  |  |  |  |  |  |
| (6Z)-Nonen-1-ol | 18.78 | C9H18O | 35854-86-5 |  |  | 6.41 |  |  |  | 0.50 |  |  |
| 11-Dodecenol | 18.83 | C12H24O | 35289-31-7 |  |  |  |  |  |  |  |  | 0.42 |
| 10-Dodecenol | 18.84 | C12H24O | 35237-63-9 |  |  |  |  |  |  | 0.44 |  |  |
| 9-Decen-1-ol | 18.87 | C10H20O | 13019-22-2 |  | 0.14 |  |  |  |  |  |  |  |
| 2-Methyl-5-nonanol | 19.08 | C10H22O | 29843-62-7 |  |  |  |  |  |  | 0.53 |  |  |
| 5-Decanol | 19.16 | C10H22O | 5205-34-5 |  | 0.48 | 0.54 | 0.64 | 1.05 |  | 1.13 |  | 1.32 |
| 3-Decanol | 19.54 | C10H22O | 1565-81-7 |  |  | 0.84 | 1.11 | 1.73 |  |  |  |  |
| Cyclodecanol | 19.64 | C10H20O | 1502-05-2 |  | 0.24 |  |  |  |  |  |  |  |
| 2-Ethylcyclohexanol | 19.64 | C8H16O | 3760-20-1 |  | 0.24 |  |  |  |  |  |  |  |
| 1-Nonanol | 26.38 | C9H20O | 143-08-8 | 0.33 |  |  |  |  |  |  |  |  |
| 4-methyl-2-propyl-1-Pentanol | 26.61 | C9H20O | 54004-41-0 |  |  |  |  |  |  |  | 4.82 |  |
| Tetrahydro-4H-pyran-4-ol | 29.23 | C5H10O2 | 2081-44-9 |  |  |  |  |  |  |  | 0.66 |  |
| (E)-2-Octen-1-ol | 30.78 | C8H16O | 18409-17-1 |  | 0.10 |  |  |  |  |  |  |  |
| octahydro-4a(2H)-Naphthalenemethanol | 31.30 | C11H20O | 99992-19-5 | 0.11 | 1.31 | 2.50 | 1.70 | 3.73 | 3.47 | 2.81 |  |  |