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  |  |  |