Table S5 Volatile component of acids 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 |
| Formic acid | 2.51  | CH2O2 | 64-18-6 | 5.31  |  |  |  |  |  |  |  | 3.02  |
| Acetic acid | 2.97  | C2H4O2 | 64-19-7 | 8.55  | 1.21  | 2.69  | 0.33  | 1.31  |  |  | 20.53  | 6.17  |
| 4-hydroxy-Butanoic acid | 9.93  | C4H8O3 | 591-81-1 | 0.49  | 0.13  |  |  |  |  |  |  |  |
| hydroxy-Acetic acid  | 10.06  | C2H4O3 | 79-14-1 | 13.90  |  |  |  |  |  |  |  |  |
| Butanoic acid, anhydride | 11.84  | C8H14O3 | 106-31-0 |  | 0.33  |  |  |  |  |  |  |  |
| Propanoic acid, anhydride | 13.93  | C6H10O3 | 123-62-6 |  |  |  |  |  | 1.42  |  |  |  |
| 2-Methylbutanoic anhydride | 17.74  | C10H18O3 | 1468-39-9 |  |  |  |  | 4.19  |  |  |  |  |
| (+)-Dibenzoyl-L-tartaric acid anhydride | 17.98  | C18H12O7 | 64339-95-3 |  |  |  |  |  |  | 1.77  | 0.91  |  |
| Benzoic acid | 18.24  | C7H6O2 | 65-85-0 | 0.44  |  | 0.16  |  |  |  | 1.76  |  |  |
| 6-(1,1-dimethylethyl)-2,3-dihydro-1,1-dimethyl-1H-Indene-4-acetic acid  | 32.16  | C17H24O2 | 55591-05-4 | 1.58  |  |  |  |  |  |  |  |  |
| Tetradecanoic acid | 33.25  | C14H28O2 | 544-63-8 |  |  |  |  |  |  |  |  | 0.09  |
| n-Hexadecanoic acid | 37.35  | C16H32O2 | 57-10-3 |  |  |  |  |  | 0.07  | 0.16  | 0.16  | 0.33  |