Table S4 Volatile component of ketones 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 |
| Acetone | 1.34 | C3H6O | 67-64-1 |  | 0.69 |  |  |  |  |  |  |  |
| 3-Pentanone | 2.14 | C5H10O | 96-22-0 |  |  |  |  |  |  |  | 0.16 |  |
| 1-hydroxy-2-Propanone | 3.45 | C3H6O2 | 116-09-6 | 2.18 |  |  |  |  |  |  |  | 1.69 |
| 2(5H)-Furanone | 6.43 | C4H4O2 | 497-23-4 | 1.27 |  |  |  |  |  |  |  |  |
| Cyclopentanone | 9.94 | C5H8O | 120-92-3 |  |  |  |  |  |  |  |  | 0.25 |
| 1,2-Cyclopentanedione | 10.44 | C5H6O2 | 3008-40-0 | 0.39 |  |  |  |  |  |  | 2.24 | 0.17 |
| Dihydroxyacetone | 10.77 | C3H6O3 | 96-26-4 | 2.21 |  |  |  |  |  |  |  |  |
| 2,4-Dihydroxy-2,5-dimethyl-3(2H)-furan-3-one | 12.27 | C6H8O4 | 10230-62-3 | 0.81 |  |  |  |  |  |  | 0.65 |  |
| 1-Penten-3-one | 14.06 | C5H8O | 1629-58-9 |  |  |  |  | 1.59 |  |  |  |  |
| 2,3-Benzofurandione | 14.35 | C8H4O3 | 4732-72-3 |  | 0.05 |  |  |  |  |  |  |  |
| 3-methyl-2,4(3H,5H)-Furandione | 17.09 | C5H6O3 | 1192-51-4 |  |  |  |  |  |  |  | 0.29 |  |
| 3-Methyl-4-nonanone | 17.25 | C10H20O | 35778-39-3 |  |  | 0.14 |  |  |  |  |  |  |
| 2,3-dihydro-3,5-dihydroxy-6-methyl-4H-  Pyran-4-one | 17.63 | C6H8O4 | 28564-83-2 | 9.02 |  |  |  |  |  |  | 10.76 |  |
| 2,5-Dimethyl-4-hydroxy-3-hexanone | 17.78 | C8H16O2 | 815-77-0 |  | 0.90 |  |  |  |  |  |  |  |
| 3-Decanone | 18.99 | C10H20O | 928-80-3 |  | 0.57 |  |  |  | 0.67 | 1.03 | 0.65 | 1.20 |
| Ketone, methyl 2-methyl-1,3-oxothiolan-2-yl | 20.69 | C6H10O2S | 33266-06-7 | 4.41 |  |  |  |  |  |  |  |  |
| (E)-5,9-Undecadien-2-one, 6,10-dimethyl | 26.08 | C13H22O | 3796-70-1 |  |  |  | 0.20 |  | 0.35 |  | 1.09 | 0.50 |
| (Z)-5,9-Undecadien-2-one, 6,10-dimethyl | 26.09 | C13H22O | 3879-26-3 |  | 0.19 |  |  | 0.38 |  |  |  |  |
| 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-Buten-2-one | 26.89 | C13H20O | 14901-07-6 |  |  |  |  |  |  |  | 0.73 |  |
| 6-Methyl-6-(5-methylfuran-2-yl)heptan-2-one | 26.97 | C13H20O2 | 50464-95-4 |  | 0.14 |  |  |  | 0.24 |  |  | 0.27 |
| 1,6-Dioxacyclododecane-7,12-dione | 28.11 | C10H16O4 | 777-95-7 | 0.28 |  |  |  |  |  |  |  |  |
| 2,5-bis(1,1-dimethylpropyl)-2,5-Cyclohexadiene-  1,4-dione | 30.96 | C16H24O2 | 4584-63-8 | 0.71 |  |  |  |  |  |  |  |  |
| 3,5-di-tert-Butyl-4-hydroxyacetophenone | 34.31 | C16H24O2 | 14035-33-7 | 1.62 |  |  |  |  |  |  |  |  |