***Reference Page – Separating fruity compounds***

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| **Chemical compound** | **Properties** | **Retention times** | |
| Isoamyl acetate | **Scent:** Banana  **Molecular weight:** 130.2 g/mol  **Boiling point:** 142 °C | **GC #1** | 1.90 – 2.30 min |
| **GC #2** | 4.20 – 4.70 min |
| **GC #3** | 1.60 – 2.10 min |
| **GC #4** | 2.20 – 2.60 min |
| Ethyl isovalerate | **Scent:** Blueberry **Molecular weight:** 130.2 g/mol  **Boiling point:** 131-133 °C | **GC #1** | 1.70 – 2.00 min |
| **GC #2** | 4.00 – 4.60 min |
| **GC #3** | 1.40 – 2.00 min |
| **GC #4** | 2.00 – 2.50 min |
| Eucalyptol | **Scent:** Mint/cough syrup  **Molecular weight:** 154.3 g/mol  **Boiling point:** 176-177 °C | **GC #1** | 5.20 – 5.70 min |
| **GC #2** | 9.00 – 9.50 min |
| **GC #3** | 4.80 – 5.20 min |
| **GC #4** | 6.00 – 6.50 min |
| Ethyl acetate (*internal standard*) | **Scent:** Nail polish remover  **Molecular weight:** 88.1 g/mol  **Boiling point:** 77 °C | **GC #1** | 0.50 – 0.60 min |
| **GC #2** | 1.20 – 1.70 min |
| **GC #3** | 0.40 – 0.80 min |
| **GC #4** | 0.50 – 0.70 min |

***Reference Page – Calibration curves***

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| --- | --- |
|  | **Mixture B** |
| **GC #1** | *y =* 0.3817x – 3.9339 |
| **GC #2** | *y =* 0.1815x – 0.6539 |
| **GC #3** | *y =* 0.629x – 8.0657 |
| **GC #4** | *y =* 0.4049x – 4.5126 |