**Determination of % KHP in a Mixture**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Course\_\_\_\_\_\_Section\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| CONTROL  | Trial 1 | Trial 2 | Trial 3 |
| Mass unknown (g) |  |  |  |
| Initial Volume (mL) |  |  |  |
| Final Volume (mL) |  |  |  |
| Total NaOH used (mL) |  |  |  |
| Moles NaOH reacted |  |  |  |
| Moles KHP |  |  |  |
| % Composition |  |  |  |

Average % Composition: Standard Deviation:

$\% comp KHP=\left(\frac{g KHP}{g total unknown}\right)× 100$ $s=\sqrt{\frac{\sum\_{i=1}^{N}\left(x\_{i}-\overbar{x}\right)^{2}}{N-1} }$

Actual Control %KHP (*Value Received from TA*) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| UNKNOWN  | Trial 1 | Trial 2 | Trial 3 |
| Mass unknown (g) |  |  |  |
| Initial Volume (mL) |  |  |  |
| Final Volume (mL) |  |  |  |
| Total NaOH used (mL) |  |  |  |
| Moles NaOH reacted |  |  |  |
| Moles KHP |  |  |  |
| % Composition |  |  |  |

Average % Composition: Standard Deviation:

$\% comp KHP=\left(\frac{g KHP}{g total unknown}\right)× 100$ $s=\sqrt{\frac{\sum\_{i=1}^{N}\left(x\_{i}-\overbar{x}\right)^{2}}{N-1} }$

Range (*Highest % – Lowest %*) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_