**Preparation of a Standard HCl Solution**

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

Standardization of HCl

Mass of THAM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Volume of THAM solution \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Molarity of THAM solution \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Aliquot 1** | **Aliquot 2** | **Aliquot 3** |
| Volume of aliquot |  |  |  |
| Volume of HCl |  |  |  |
| Molarity of HCl |  |  |  |

Average molarity of HCl\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Std. Dev.\_\_\_\_\_\_\_\_\_\_\_

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

**Checklist for the Lab:**

Answer the prelaboratory questions and the quiz questions in your lab notebook.

Complete the coversheet.

Finish your notebook pages to include a complete set of calculations and a reflective summary?

Complete the CHALLENGE QUESTIONS in your laboratory notebook.