CHM 3120L

INTRODUCTION TO ANALYTICAL CHEMISTRY

LABORATORY REPORT

**EXPERIMENT: DETERMINATION OF ASCORBIC ACID BY REDOX TITRATION**

Name: Click here to enter text.

Section: Click here to enter text.

Date Experiment Completed: Click here to enter a date.

1. Complete the following table:

|  |  |  |
| --- | --- | --- |
|  | **Preparation of the potassium iodate solution** | |
|  | F.W., g/mole | 214.0008 |
|  | mass, g |  |
|  | volume, mL | 500.00 |
|  | concentration, mole/L |  |
|  | volume titrated, mL | 25.00 |
|  | moles titrated |  |

1. Complete the following table. (You also may create a similar table in Excel, complete your calculations there, and then paste it below. Feel free to add columns to the table to help you with your calculations).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Calibration of the sodium thiosulfate solution** | | | | |
| Volume of Na2S2O3 solution used for titration, mL | | | | concentration, mole/L |
| Trial 1 | Trial 2 | Trial 3 | average |
|  |  |  |  |  |

1. Complete the following table. (You also may create a similar table in Excel, complete your calculations there, and then paste it below. Feel free to add columns to the table to help you with your calculations).

|  |  |  |  |
| --- | --- | --- | --- |
| **Determination of the Ascorbic Acid** | | | |
| Trial | mass of the sample, g | volume of Sodium Thiosulfate solution, mL | Weight % of the Asc. Acid in the tablet |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

4. Report you final result:

Weight Percent: Click here to enter text.

Uncertainty: Click here to enter text.