DATA SHEET

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Data sheet for E2** | | | | | |
| **Section** |  | **Group** |  | **TA** |  |
| **Part A** | **Part A.1** | | | **Part A.2** | |
| pH meter calibration | 0.5 M HCl | 0.5M HAc | ? M HAc | Mg with 0.5M HCl | Mg with 0.5M HAc |
| pH0 | pH1 | pH2 | pH3 | observation | observation |
|  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Part B**  \*\*\*\*\*\*\*designed before lab, show it to your section TA before starting part C&D\*\*\*\*\* | | | | |
| buffer | Design pH | cb/ca | x mL  (5.00 M CH3COOH) | y mL  (2.00M CH3COONa) |
| #1 | (pKa1) |  |  |  |
| #2 |  |  |  |  |
| #3 |  |  |  |  |
| #4 |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Part C & D** | | | | | | |
| H2O / H2O | | | H2O / H2O | | H2O / HCl | H2O / NaOH |
| pH4 | | | pH5 | | pH6 | pH7 |
|  | | |  | |  |  |
| Buffer | initial | +5mL H2O | +5 drops NaOH | +5 drops HCl | End | Total HCl |
| pH8 | pH9 | pH10 | pH11 | pH12 | V(mL) |
| #1 |  |  |  |  |  |  |
| #2 |  |  |  |  |  |  |
| #3 |  |  |  |  |  |  |
| #4 |  |  |  |  |  |  |