Titration Activity

(3) Complete / neatly done

(3) **Background Information**:

- 1 *titrant* solution of known concentration in the buret
- 1 endpoint the point where a sharp, easily seen change takes place
- 1 equivalence point the amount of titrant used at the end point

(4) Experimental Design:

- 2 manipulated variable amount of unknown solution
- 2 responding variable amount of titrant used

(3) **Procedure**:

- 1 Rinse and clean the buret.
- 1 Pipet 10.0 mL of the unknown solution into a flask/beaker.
- 1 Add 2 or 3 drops of phenolphthalein indicator.

(3) **Observations**:

- 1 data chart
- 2 Three trials within 0.4 mL of each other

Conclusion

- (5) Part A
 - 3 calculation
 - 2 value between 0.245 mol/L and 0.255 mol/L

(2) Part B

- materials were not sufficiently cleaned
- phenolphthalein changes at pH = 8.0 rather than at 7.0

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