**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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