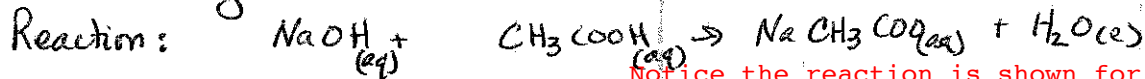


EXP. NUMBER 1	EXPERIMENT/SUBJECT Acid Base Titration	DATE 5/2/11	01
NAME Dr. Grant EDWARDS	LAB PARTNER None	LOCKER/DESK NO. 22	COURSE & SECTION NO. 120L-16

Unknown # _____

Objective: To titrate an unknown sample of acid with a standardized base solution and determine the CONCENTRATION of the unknown in Molarity.



Notice the reaction is shown for the main titration, other pertinent reactions should be shown here also.

PROCEDURE:

Observations:

- Obtain a solution of standardized base.
- Prime a buret, by with ~10 mL of Base
- Acquire a sample and record unknown number (also at top!)
- Quantitatively transfer unknown to 100 mL volumetric flask and fill to the line with distilled water.
- ~~Use a pipet to transfer~~ prime a 10.00 mL pipet with the unknown Acid solution
- pipet 10.00 mL of Acid into an 125 mL Erlenmeyer flask, Add ~2 drops phenolphthalein indicator, and ~25 mL distilled water.
- Titrate the erlenmeyer flask mixture with the base in the buret until the solution is very light pink
- Repeat until reproducible (4 or more trials).

Concentration NaOH _____

Notice how the notebook is written and prepared so that the experiment is easily completed and easy for the reader to follow and understand.

unknown number _____

Unknown number in two places, so you don't forget.

Mistakes are ok, one line through them, do not black them out!

Trial data for each trial in table on next page.

SIGNATURE	DATE	WITNESS/TA	DATE
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EXP. NUMBER	EXPERIMENT/SUBJECT	DATE	02
NAME	LAB PARTNER	LOCKER/DESK NO.	COURSE & SECTION NO.

Data:

Table 1: Titration Trials

Trial #	T ₁	T ₂	T ₃	T ₄
Amount of Acid (mL)	10.00			
Initial buret reading (mL)				
Final buret reading (mL)				
Volume base (mL)				
Molarity of Unknown Acid (M)				
Endpoint Color				
Valid or Not, why.				
Molarity of unknown Acid (M)				

Notice the data table is already setup and is well organized with units!

You could restart the protocol again if there are more steps as needed.

SIGNATURE	DATE	WITNESS/TA	DATE
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