

Experiment 6: Neutralization Capacity of an Antacid

Version 2					
me:	Date:				
b Partner:	Section:				
Experimental Data and Calculations					
able 1 Determination of Concentration UCL Solution (D	art A dua nav	tlah)			
able 1. Determination of Concentration HCl Solution. (P.1) NaOH concentration written on carboy	art A due nex	i Lau.)			
HCl concentration written on carboy					
Solution A concentration (Theoretical value)					
4) Solution B concentration (Theoretical value)					
	Trial 1*	Trial 2	Trial 3		
5) Volume of HCl sample					
6) Initial buret reading					
7) Final buret reading					
8) Volume NaOH added					
9) Moles of NaOH					
10) Moles HCl					
11) Molar concentration of HCl Sln B (Experimental Value)					
12) Mean molar concentration of Solution B		-			
13) Standard deviation					
14) RSD					
15) Relative percent error (%)					

Data Table 2. Determination of Neutralization Capacity of A	Antacid		
1) Antacid Brand			
2) Active ingredient and amount (from label)			
3) Concentration of NaOH			
4) Average molar concentration of HCl Solution B (from Part A)			
	Trial 1*	Trial 2	Trial 3
5) Mass of tablet			
6) Mass of pulverized antacid sample			
7) Volume of HCl sample			
8) Initial buret reading			
9) Final buret reading			
10) Volume of NaOH added			
11) Moles of NaOH			
12) Moles of HCl in excess			
13) Moles of HCl added to analyte			
14) Moles of HCl that reacted with active ingredient in sample			
15) Moles of active ingredient in sample			
16) Mass of active ingredient in sample			
17) Amount of active ingredient per tablet			
18) Mean amount of active ingredient per tablet			
19) Standard deviation for active ingredient per tablet			
20) RSD for active ingredient per tablet			
21) Relative percent error (%)			
*Show all calculations related to Trial 1, standard deviation, RSI), and relative $\%$	error.	