

CHEM 222

Exp. 8: Analysis of a Mixture of Carbonate and Bicarbonate

Name: _____ Date: _____

TA's Name: _____

EXP. 6 DATA

	molarity	st. dev.	% RSD
HCl			
NaOH			

UNKNOWN #: _____

	trial 1	trial 2	trial 3
mass of unknown (g)			
total volume of HCl added (mL)			
total moles of HCl added			
total alkalinity (M)			
volume of NaOH initially added			
moles of NaOH initially added			
volume of HCl for back titration (mL)			
moles of NaOH reacted with HCl			
moles of NaHCO ₃			
moles of Na ₂ CO ₃			
mass of NaHCO ₃ in unknown (g)			
mass of Na ₂ CO ₃ in unknown (g)			
wt/wt % of NaHCO ₃ in unknown			
wt/wt % of Na ₂ CO ₃ in unknown			

FOR GRADER'S USE ONLY (do not write below)

	NaHCO ₃	Na ₂ CO ₃
real wt/wt %		
experimental error		
lab report grade	/100	