

NAME \_\_\_\_\_ DATE \_\_\_\_\_ SECTION \_\_\_\_\_

INSTRUCTOR \_\_\_\_\_ GRADE \_\_\_\_\_

**EXPERIMENT 14: REPORT FOR THE ANALYSIS OF SODA ASH****DATA/RESULTS****A. DETERMINATION OF THE NORMALITY OF NaOH**

	trial 1	trial 2	trial 3
1. Weight of KHP	_____	_____	_____
2. Milliliters of NaOH (final)	_____	_____	_____
3. Milliliters of NaOH (initial)	_____	_____	_____
4. Milliliters of NaOH used	_____	_____	_____
5. Normality of NaOH	_____	_____	_____
6. Average normality of NaOH		_____	
7. Deviation of normality from the average normality (ppt)	_____	_____	_____
8. Average of the deviations (ppt)		_____	

**B. DETERMINATION OF THE NORMALITY OF HCl**

	trial 1	trial 2	trial 3
1. Milliliters of HCl	_____	_____	_____
2. Milliliters of NaOH (final)	_____	_____	_____
3. Milliliters of NaOH (initial)	_____	_____	_____
4. Milliliters of NaOH used	_____	_____	_____
5. Average milliliters of NaOH used		_____	
6. Deviation of NaOH volume from the average NaOH volume (ppt)	_____	_____	_____
7. Average of the deviations (ppt)		_____	
8. Average normality of HCl		_____	

C. DETERMINATION OF THE PERCENT  $\text{Na}_2\text{CO}_3$  IN THE SODA ASH SAMPLE

	Sample No. _____		
	trial 1	trial 2	trial 3
1. Weight of soda ash	_____	_____	_____
2. Milliliters of HCl solution (final)	_____	_____	_____
3. Milliliters of HCl solution (initial)	_____	_____	_____
4. Milliliters of HCl solution used	_____	_____	_____
5. Grams of $\text{Na}_2\text{CO}_3$	_____	_____	_____
6. % $\text{Na}_2\text{CO}_3$	_____	_____	_____
7. Average % $\text{Na}_2\text{CO}_3$		_____	
8. Deviation of % $\text{Na}_2\text{CO}_3$ from the average % $\text{Na}_2\text{CO}_3$	_____	_____	_____
9. Average of the deviations		_____	

## CALCULATIONS