CHEM 1105: ABSOLUTE ZERO

Name: _____   Date:_____   Section_____

Objective:

Procedure:

As in Kwantlen Chemistry 1105 lab manual, pages _____.

Observations

Data

Table 1. Capillary Tube Data.

Reading number	Water Temperature	Column length
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

Graph

Attach a graph to this report. On your graph, include calculations for the slope and y-intercept. Show clearly which points were used for determining the slope.

Calculations:

Show all your calculations

Discussion

Write a short paragraph discussing your results. For what to include in a discussion see your lab manual.

Conclusion:

Questions

Attach any assigned questions.

CHEM 1105: IDEAL GAS CONSTANT

Name: _____   Date:_____   Section_____

Objective:

Procedure:

As in Kwantlen Chemistry 1105 lab manual, pages _____.

Observations

Data

Table 1. $KClO_3$ decomposition data

	Run 1	Run 2
Mass of test tube and mixture before heating		
Mass of test tube and mixture after heating		
Mass of beaker and water *after* reaction		
Mass of beaker		
Temperature of water in the flask *after* reaction		
Vapour pressure of water at that temperature		
Atmospheric pressure		

Calculations:

1. The mass of O_2 produced

2. The moles of O_2 produced

3. The mass of water expelled

4. The volume of water expelled (assume a density of 0.997 g/mL)

5. The temperature of the solution (in degrees Kelvin)

6. The pressure of the O_2 gas in atmospheres

7. The value of R, from PV = nRT

Discussion

Write a short paragraph discussing your results. For what to include in a discussion see your lab manual.

Conclusion:

Questions

Attach any assigned questions