

Name Henry Jeckyll

Date 2/31/2007

TA Edward Hyde

Section 02134

Experiment 1

Are the Densities of Coke and Diet Coke Different?

Objectives:

To learn how to use pipettes, burettes, and graduated cylinders.

To learn how to use an analytical balance.

To measure and compare the densities of Coke and Diet Coke and verify that density is an intensive property.

Part 1

Are the Densities of Coke and Diet Coke Different?

Sample 1 used: _____

Sample Temperature: _____

	Pipette		Grad. Cylinder		Burette	
	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2
Mass of Empty Beaker (g)						
Mass of Beaker + Liquid Sample (g)						
Mass of Liquid Sample (g)						
Volume Delivered (ml)						
Calculated Density (g/ml)						

Sample density calculation:

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Class Average Data for Part 1:

Sample	Average Density \pm Standard Deviation (g/ml)		
	Pipette	Grad. Cylinder	Burette
Coke			
Diet Coke			

Part 2

Does the size of the sample affect the density?

Sample I used: _____

Volume assigned: _____

	Trial 1	Trial 2
Mass of Empty Beaker (g)		
Mass of Beaker + Liquid Sample (g)		
Mass of Liquid Sample (g)		
Volume Delivered (ml)		

Sample	Density (g/ml) determined from the plot
Coke	
Diet Coke	