Name   Henry Jeckyll   Date   9/14/2009

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 used: _____

Sample Temperature: _____

Burette volumes	Trial 1	Trial 2
Initial Burette Reading (ml)		
Final Burette Reading (ml)		
Volume Delivered (ml)		

	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)						

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Results from combined class data

Sample	Average Density ± Std. Dev (g/ml)		
	Pipette	Grad. Cyl.	Burette
Coke			
Diet Coke			

| Part 2 | Does the size of the sample affect the density? |

Sample used: _____

Volume assigned _____

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

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