Dumas Method Data Sheet			
Student Name:			
Partner Name:			
Date	Instructor's Initials	Grade	
	Elemental analysis (r	mass % composition)	
Part One			
Mass of Container			
Mass of Container + Condensed Sample			
Mass of Condensed Sample			
Temperature of Water Bath			
Barometric Pressure			
Part Two			
Mass of Empty Flask			
Mass Flask + Water			
Mass of Water			
Temperature of Water			
Density of Water			
Volume of Flask			
Show your work for calculating the volume of your flask.			

## Dumas Method Data Sheet

Using the data collected during the Dumas Experiment, calculate the formula mass of the unknown liquid. Show all your work.
Use the %mass values from the elemental analysis to calculate the empirical formula of your unknown liquid. Show all of your work.
Based on the formula mass and empirical formula, determine the true molecular formula of your unknown liquid. Calculate the true formula mass of the unknown liquid. Show all your work.
Calculate the percent error of your experimentally determined formula mass. How did you do? Describe at least three sources of error in your methodology. If you had the opportunity to do the experiment again, what modifications could you make to mitigate these errors?