***Combustion of Alcohols***

The energy of a chemical reaction depends upon the number of bonds broken and formed. **Is there a difference in the amount of energy released when different sized molecules burn?**

1. Calculate the molar enthalpy of combustion for 3 different sized alcohols using bond enthalpies (assume complete combustion). [9]
2. Determine experimentally using the process of calorimetry, the molar enthalpy of combustion for the 3 different alcohols from 1). [12]
3. Compare the calculated values from 1) to the experimental values from 2) using % difference calculations. Are you confident in your experimental values to be able to answer the testable question?[4]
4. Answer the testable question. **(Bolded above)** [2]