

Name _____

ChEn 273

Special Problem 9

Due: Mar. 18, 2009

Please calculate the heat of combustion of propane (g) at 25°C, 1000°C, and at 2000°C using (a) the method using ΔC_p and the heat of reaction at 25°C, and (b) the method using ΔH_f° and the enthalpy of each species at the final temperature. Assume that the H₂O formed is in the gas phase. Please use either Excel or Mathcad.