# REVIEW FOR THERMOCHEMISTRY TEST

1. The combustion of methanol is shown by the following equation:

$$2CH_3OH_{(3)} + 3O_{2(g)} \longrightarrow 2CO_{2(g)} + 4H_2O_{(g)}$$

a) Using the data below, find the heat of reaction for the combustion of methanol.

$$C_{(0)} + O_{2(g)} \rightarrow CO_{2(g)}$$
  $\Delta H = -393 \text{ kJ (x2)}$ 
 $2H_{2(g)} + O_{2(g)} \rightarrow 2H_{2}O_{(g)}$   $\Delta H = -484 \text{ kJ (x2)}$ 
 $2C_{(0)} + 4H_{2(g)} + O_{2(g)} \rightarrow 2CH_{2}OH_{(0)}$   $\Delta H = -476 \text{ kJ (x (-1))}$ 
 $2C_{(0)} + 2O_{2(g)} \rightarrow 2CO_{2(g)}$   $\Delta H = -786 \text{ kJ}$ 
 $4H_{2(g)} + 2O_{2(g)} \rightarrow 4H_{2}O_{(g)}$   $\Delta H = -968 \text{ kJ}$ 
 $2CH_{2}OH_{(0)} \rightarrow 2CO_{2(g)} \rightarrow 4H_{2}O_{(g)}$   $\Delta H = 476 \text{ kJ}$ 
 $2CH_{2}OH_{(0)} + 3O_{2(g)} \rightarrow 2CO_{2(g)} + 4H_{2}O_{(g)}$   $\Delta H = -1278 \text{ kJ}$ 

- b) What is the molar enthalpy of combustion for methanol? AH = -1278 kJ/2 mol = -639 kJ/mol
- Express the energy changes for the target reaction in the form ΔH<sub>n</sub> = ΔH<sub>contagon</sub> CH<sub>2</sub>OH = -639 kJ/mol
- d) Draw the potential energy diagram to illustrate the energy changes for the target reaction.



# **Thermochemistry Test A**

**Huangqi Zhang** 

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