

Participation Assignment

CHEM 1090-General Chemistry I

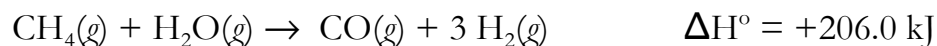
Name:

#13

Section: 32, MWF

Due Date: Wednesday 2/13/2019

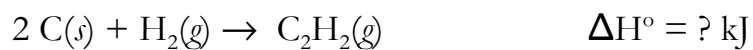
1. The first reaction in the steam reforming process for the production of hydrogen gas using methane is as follows:



Write the chemical equation and the standard enthalpy value for the reaction of 2 moles of methane, CH_4 .

2. The reverse of the reaction in #1 is sometimes called a methanation reaction. Write the chemical equation for the reverse reaction and also the standard enthalpy value for the production of 1 mole of methane.

3. Calculate the standard enthalpy of reaction for the following reaction:



Using only the following information:

