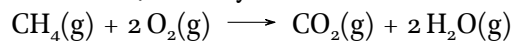


Quiz 7.1 – Enthalpy, Entropy, and Gibbs Energy

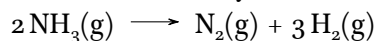
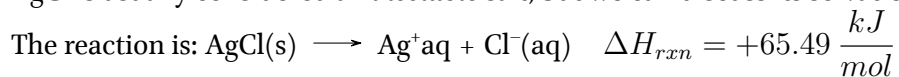
Name: _____

Question 1

Use Table 7.1 from your textbook to find the enthalpy for the combustion of methane gas:

**Question 2**Use your answer from question 1 to find how many J of heat are released when 5.0 g of CH_4 react with excess O_2 **Question 3**

Use Table 7.1 from your textbook to find the enthalpy for the following reaction:

**Question 4**Use your answer from question 3 to find the enthalpy change when 2.0 g of NH_3 decompose into H_2 and N_2 **Question 5** AgCl is usually considered an *insoluble* salt, but we can discuss its solvation in theoretical termsIs there any temperature condition where AgCl might actually become soluble?

Pioneers

By Carol Lynn Pearson

My people were Mormon pioneers.
Is the blood still good?
They stood in awe as truth
Flew by like a dove
And dropped a feather in the West.
Where truth flies you follow
If you are a pioneer.
I have searched the skies
And now and then
Another feather has fallen.
I have packed the handcart again
Packed it with the precious things
And thrown away the rest.
I will sing by the fires at night
Out there on uncharted ground
Where I am my own captain of tens
Where I blow the bugle
Bring myself to morning prayer
Map out the miles
And never know when or where
Or if at all I will finally say,
"This is the place,"
I face the plains
On a good day for walking.
The sun rises
And the mist clears.
I will be all right:
My people were Mormon Pioneers.