

Homework test 3

Know the names and symbols for the first 54 elements

Chapter 5.

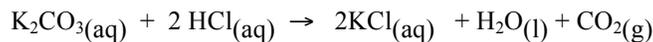
Problems: 43, 45, 51, 53, 57, 59, 61, 63, 65, 73, 79, 80, 81, 91, 93, 95, 97, 99, 101, 103

Extra Problems:

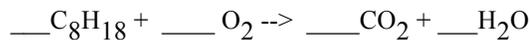
1. What are the products, include the phases(s, g, l, aq) and balance the equation:



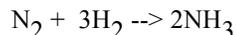
2. Write the total ionic and net ionic equations for the following molecular equation:
molecular:



3. Please balance the following equation.



4. Consider the reaction:



How many grams of NH_3 are produced from the reaction of 5.40 g of H_2 ? (Assume hydrogen is the limiting reagent)

Chapter 7

Problems 37, 39, 43, 47, 49, 51, 53, 55, 57, 9, 61, 65, 67, 69, 71, 73, 77, 78, 81, 83, 87, 89, 97, 98, 105

Extra Problems:

1. Which molecule has the strongest intermolecular interaction: CO , HF , Cl_2 ?
2. Consider O_2 , HCl , H_2O_2 . Rank these molecules in order of boiling point from highest to lowest.
3. Please fill in the appropriate circles and label the arrows

