

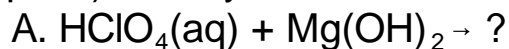
Quiz 2nd Half Chapter 4

1. I am going to mix 100 mLs of 0.01 M Na_2SO_4 with 50 mLs of 0.01 M $\text{Ba}(\text{NO}_3)_2$.

A. (2 points) Write the balanced net ionic equation for the reaction.

B. (3 points) How many grams of product will be produced in this reaction?

2. (1 point) Identify the acid and the base in the following reaction

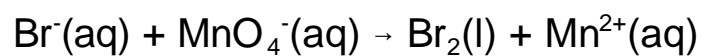


3. (1 point) Define the term 'titrant'

4.(6 points) Assign the oxidation state for each element in the following compounds



5A. (4 points) Balance the following redox reaction in acidic solution:



5 B. (3 points) In the above reaction identify the oxidizing agent, the reducing agent, and the substance being oxidized