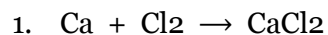


Name: _____

Date: _____

Chemistry 11 - Percent Yield



In the above reaction, 1.00 mole of Ca reacts with an excess of Cl_2 . Only 106 g of CaCl_2 is produced. What is the percent yield?

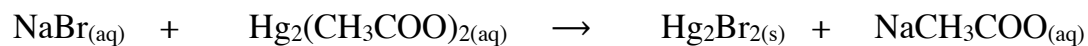


In the above reaction, 0.60 mol of N_2 reacts with an excess of H_2 . Only 14.5 g of NH_3 are produced. What is the percent yield?

3. When 21.8 g of silver nitrate, AgNO_3 , are reacted with an excess of sodium chloride, 17.8 g of silver chloride, AgCl , are formed. Calculate the percent yield of silver chloride.

4. When 5.44 g of copper are reacted with an excess of oxygen, 5.10 g of copper (II) oxide are formed. Calculate the percent yield of copper (II) oxide.

5. In a chemical analysis to test the purity of a bottle of sodium bromide, a solution containing 1.17 g of sodium bromide was reacted with an excess of dimercury (I) acetate solution. The dry precipitate had a mass of 2.73 g. Calculate the percent yield for the precipitate. **Note that reaction is UNBALANCED!!**



6. A solution containing 2.56 g of aluminum nitrate is mixed with a solution containing 1.02 g of ammonium sulphide. Determine the unreacted mass of the excess reagent and the mass of precipitate formed.