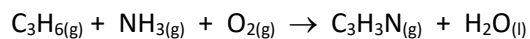


Name: _____

Instructions: Answer each of the following questions to the best of your ability. Use the proper number of significant figures and units wherever appropriate.

1. (5 pts) In the reaction below, what is the percent yield when 12.0g of C_3H_3N is made from 15.0g of C_3H_6 and 15.0g of O_2 ?



2. (3 pts) What mass of potassium sulfate is needed to make 250.0mL of a $1.50 \times 10^{-3}M$ of potassium sulfate.
3. (2 pts) If 10.0mL of the solution from Question 2 was diluted to a final volume of 100.0mL, what is the final concentration of K_2SO_4 ?