Wkst 1.1: Average Reaction Rate Calculations

1- Determine average reaction rates in mole/s for all chemicals involved if a camp stove burns propane (C_3H_8) at a rate of 3.00 mole/s.

2- If hydrogen gas is generated at 245 L/min at RTP in a reaction between HNO_3 and Al, find reaction rates for all reactants and products in mole/min.

3- If 176 g of NaOH reacts with H_2SO_4 in 15 seconds, find reaction rates for all participating chemicals in g/s.

4- Fluorine and ammonia gases react at STP to produce nitrogen and hydrogen fluoride gases. Find reaction rates in L/min if nitrogen is produced at 5.00 mole/min.

5- Determine reaction rates for all chemicals in g/s if a reaction between 450. g of HCl and 375 g of Fe_2S_3 yields $FeCl_3$ and H_2S during a 150. second interval.