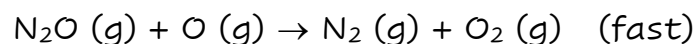
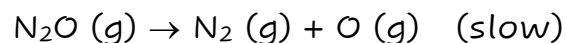


Reaction Mechanisms

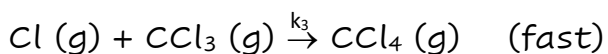
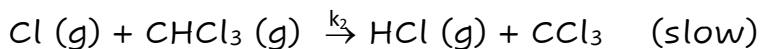
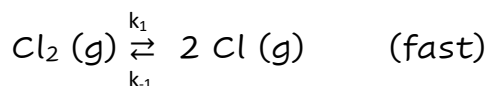
1. The decomposition of dinitrogen oxide, N_2O is believed to occur by the following two-step mechanism:



a) Write an equation for the overall reaction

b) Write the rate law for the overall reaction

2. Below is the proposed mechanism for the gas phase reaction of chloroform, CHCl_3 and chlorine.



a) Write the overall reaction

b) What is the rate law?

d) Are there intermediates in the reaction? If so what are they?

e) What is the molecularity of each elementary reaction?