

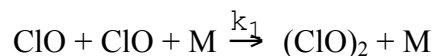
Quiz #1
CHEM 545L
Atmospheric Chemistry
19 January 1999

Name _____

1. (14 points) Arrange the following components of Earth's atmosphere in proper order beginning at Earth's surface: mesopause, mesosphere, stratopause, stratosphere, tropopause, troposphere, thermosphere.

2. (12 points) Which of the following are not direct sources of aerosols in the atmosphere: fires, gamma rays, oceans, trees, volcanoes, refrigerators.

3. (12 points) Consider the reaction



Express the rate law for removal of ClO.

4. (12 points) True or false:

- T F --The stratosphere is characterized by strong vertical mixing caused by updrafts.
- T F --The oceans are a principal driving force of the weather.
- T F --Lightening has no effect on the chemistry of the atmosphere.
- T F --The eruption of a large volcano can cause heating of the atmosphere due to an increase in the amount of solar light scattered off of the resulting aerosols.