

Chemistry 1501, Dr. Hunter
Winter 2008
Exam # 4 - Final Exam (Group Part)

Name: _____, _____ Signature: _____

Name: _____, _____ Signature: _____

Name: _____, _____ Signature: _____

Name: _____, _____ Signature: _____

Name: _____, _____ Signature: _____

Last name**First name**

The group portion of this exam has this title page plus two pages of questions (for a total of three pages). Place the names (last name first) and signatures of each group member above. *Initial each page of the exam in the top right hand corner* using the initials of the all group members so that if your exam pages get separated I can match them to your group.

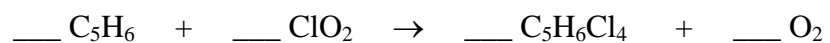
To obtain maximum credit for each question, show your work in detail. Partial credit for questions will not be assigned if no work is shown. **Indeed, no credit will be granted if complete work is not shown even for correct answers.** Feel free to use pictures/diagrams to illustrate your text answers and/or to use short text explanations to explain your drawings if your pictures are ambiguous. If you have to make assumptions, etc., to complete any answers, write me a short note stating and/or explaining your assumptions and testing them to the degree possible. Be very careful with significant figures on all answers. Note: Use the Atomic Masses from the table on the inside front cover of the text book that were also handed out with the exam.

You have 60 minutes for this exam. The twenty points for the group part of this exam correspond to 10% of the 200 overall points for this course (i.e., this exam is worth 10% of the total course grade).

Grade /20

(Group grade)

1 (10 points in total). 1.264 moles of C_5H_6 were reacted with 4.864 moles of ClO_2 in 14.1 L of solvent. Identify the final concentration of $C_5H_6Cl_4$.



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2 (10 points in total). Calculate the Concentration of Fluoride Ions in a saturated solution of InF_3 .
The appropriate $K_{\text{sp}} = 1.31 \times 10^{-23}$.

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