

CHEM 2141
Chemistry of the Elements Laboratory
Spring 2008

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Teaching Assistants:

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Lab Manual: Experiments and Pre-labs can be downloaded from the class site on Blackboard.

Guidelines

- 1) Be prompt to the labs and have all pre-lab requirements completed before coming to lab. Students who are more than 5 minutes late or do not have a pre-lab ready to be turned in to the GTA will not be allowed to carry out the experiment that week and will receive a zero for that Lab.
- 2) You will be expected to keep a bound lab notebook, recording all observations and data as they happen. The notebook will be checked and initialed by your teaching assistant at the end of each lab period.
- 3) There will not be any make up labs under any circumstances.
- 4) Lab reports are due on or before the dates indicated below. Reports will not be accepted after the assigned due dates and will be given a zero.
- 5) *You must come to the lab prepared with a copy of the experiment and the proper attire.*

Schedule

Week of	Activity/Experiment	Report that is due this week
3/31	Check-in, Inorganic Nomenclature	Inorg. Nomenclature, due at end of lab
4/7	Synthesis of $\text{Al}(\text{acac})_3$	
4/14	Synthesis of $\text{Co}(\text{acac})_3$	Synthesis of $\text{Al}(\text{acac})_3$
4/21	Synthesis of $\text{Co}(\text{acac-NO}_2)_3$ UV/VIS of $\text{Al}(\text{acac})_3$ and $\text{Co}(\text{acac})_3$	Synthesis of $\text{Co}(\text{acac})_3$
4/28	Synthesis of $\text{Co}(\text{NH}_3)_6\text{Cl}_3$	Synthesis of $\text{Co}(\text{acac-NO}_2)_3$
5/5	UV/VIS of $\text{Co}(\text{acac-NO}_3)$ and IR of $\text{Al}(\text{acac})_3$, $\text{Co}(\text{acac})_3$, and $\text{Co}(\text{acac-NO}_2)_3$	Synthesis of $\text{Co}(\text{NH}_3)_6\text{Cl}_3$
5/12	Gravimetric Analysis of $\text{Co}(\text{acac})_3$	Summary report for $\text{M}(\text{acac})_3$ including IR and UV/VIS spectroscopy
5/19	UV-VIS and IR Spectroscopy of $\text{Co}(\text{NH}_3)_6\text{Cl}_3$	Gravimetric Analysis of $\text{Co}(\text{acac})_3$
5/26	Checkout	Spectroscopy of $\text{Co}(\text{NH}_3)_6\text{Cl}_3$

Revised 3/26/08