

LAB REPORT EXPECTATIONS

CEM 415 SS17

Title

Short introduction

- This should be in paragraph form about 1 paragraph or more explaining the purpose the experiment
- This should be in your own words and no plagiarism should ever be observed.

Experimental

- 3rd person past tense in paragraph form with passive voice
- Use your own words. It is not okay to copy exactly what the lab handout says for you to do.
- Write what YOU actually did (amounts of reagents too)
- In the correct form put amount added in parentheses after the chemical or reagent.
 - For solvents just the volume or amount added.
 - “THF (10mL) was added....”
 - For substrates or reagents include the amount added and the number of moles or millimoles
 - “A 25 mL round bottom flask was charged with cadmium oxide (128 mg, 1 mmol).”
 - For catalysts you need to include the mol % of catalyst as compared to the limiting reagent or substrate.
 - “In a glovebox under an atmosphere of N₂, [Ir(OMe)cod]₂ (9.9mg, 0.015 mmol, 1.5 mol %) was carefully weighed and added to a 3 mL conical vial.”
- There should always be a space between a number and the units
 - E.g. mass: 5 g or volume: 5 mL
 - There must also be a space between mol and the % sign for catalysts (see above)

Results and Discussion

- Should be a narrative in paragraph form
- Needs to include things you witnessed such as color changes, pH readings, and gas evolutions.
- Figures
 - Explain the figures and discuss what they show and what the results mean.
 - Figures should have proper labels on them including a caption with

a figure number below the figure.

- Tables
 - Should be clear with a heading above the table and a table number.
 - Pertinent information should also be discussed.

- Schemes
 - Should have a heading and scheme number above the scheme
 - Schemes must be made using ChemDraw.

Questions

- Answers to questions should be in paragraph form in the Results and Discussion Section
- The questions should be answered thoroughly yet concisely in full sentences.
- Make sure to balance any chemical equations that are in this section.