

Report Guideline for Experiment #2

Pre-lab Reports are due at the beginning of the lab section. Refer to the laboratory syllabus for the due date for both the pre-lab and post-lab report. Both pre-lab and post-lab reports **MUST** be written in your LAB NOTEBOOK.

The procedure for this experiment is provided as a handout (NOT THE ONE IN THE MANUAL).

(I) On-line Technique Videos & Resources For This Experiment
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Click on the title below to download the video (requires [Real Player](#))

- (1) [Laboratory Safety](#) (this video was shown on the first day of the lab)
- (2) [Solution Preparation](#)
- (3) [Spectrophotometric Analysis](#)

If you have trouble downloading the videos, go to the following Web site and click on the appropriate title to download the video.

<http://oid.ucla.edu/Webcast/chemistry/index.html>

[Guides for Writing Lab Reports](#)

[Chemical Hazard Symbols](#)

[Beer's Law Tutorial](#)

[Online resource on solution concentrations](#)

[Another online resource on solution concentrations](#)

(II) Pre-lab Report Guideline

Please make sure that you follow the proper safety policies when attending the laboratory section. Refer to the lab schedule for more details. A mandatory laboratory safety check will be conducted at the beginning of the lab. Students without proper laboratory safety protection will be dismissed from the laboratory.

Please also show up on time to your lab section. Any pre-lab reports that are not turned in within the first ten minutes of the lab section will not be accepted for grading.

Your pre-lab report should include

- (i) A title of the experiment
- (ii) A reference (i.e. complete reference of the experiment including title of the lab manual, author, edition and page number of the experiment in the manual etc.) Include any changes to the procedure that you know you will make.
- (iii) A short introduction (Summarize in a few sentences about the background and the goal of the experiment. Outline the kinds of technique that you will use in the experiment)
- (iv) The procedure in flowchart format

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(II) Pre-lab Guideline Report (Continued)

- (v) Pre-lab study questions (show **ALL** your work)
(complete **ONLY** # 1, 2, 4, 5 & 6 on page 4 of the handout)

Note: For question 2, you may assume that for **EACH** dilution process, each piece of equipment can **ONLY** be used once and you can also assume that no combinations are allowed for the same piece of equipment (i.e. you don't need to worry about using the combination of a 10-mL and a 5-mL pipet in a single dilution process).

Note: The online resources listed on the previous page may be useful when working on the study questions.

- (vi) **MSDS information**
(refer to the *MSDS handout on how to use this resource online*)

Look up the following properties for **Brilliant Blue FCF**

Note: for this compound, use the CS ChemFinder Web site (refer to the MSDS handout for the Web address). *Make sure that you properly cite the reference.*

You should record the following MSDS information in your notebook. (**Printouts directly from the Web pages will NOT be accepted!!**)

- (a) Product Name
- (b) Chemical Formula
- (c) Formula Weight
- (d) Melting Point; Boiling Point and Density
- (e) Health Hazard Data (**summarize in your own words**)
- (f) Spill and Disposal procedures (**summarize in your own words**)

Note: Not all information is available for this particular compound. Make sure you check all the links in the CS Chemfinder Web site. If a particular piece of information could not be found, cite the URL address of the link(s) that you used to search for that particular information.

- (vii) **Data/observations (start a NEW page in your notebook for this section)**

Note: Start a NEW page in your notebook for this section. The previous material will be turned in at the beginning of the period; this page will be turned in at the end of the lab period (refer to item #10 on page 5 of the handout)

Report Guideline for Experiment #2

Refer to the laboratory syllabus for the due date of the post-lab report. Post-lab reports **MUST** be written in your LAB NOTEBOOK.

The procedure for this experiment is provided as a handout.

Post-lab Report Guideline (This is a GROUP Report)
(i.e. TURN IN ONLY ONE POST-LAB REPORT PER GROUP)

Before attempting to work on the group post-lab report, read the following items carefully.

Definitions of Group Report and/or Group Experiment

- (1) All members in the group **MUST** contribute equally when working on the experiment as well as writing the post-lab report.

- (2) Each group member must prepare ahead of time when writing group reports. This means review materials from lectures or from your Chemistry textbook or from on-line resources on certain topics that are relevant to the concepts when writing the reports.

Contribution to the group work is meaningless if a group member does not understand the concepts behind the experiment.

- (3) It is the responsibility of the group members to plan ahead on when they should get together to work on the report. In other words, maintain good communication between group members.

- (4) It is the responsibility of each group member to honestly describe the work that he or she did during the experiment and in writing the report. *No one should take advantage of the other group members. Report to the course instructor or your TA if you feel that other group members are taking advantage of your work.*

- (5) Each member in the group **MUST** understand the concepts behind the ENTIRE experiment regardless of which portions of the report or experiment a person is responsible for. This is, especially important for the exams.