

REPORT GUIDE Report Due: Wed, March 18 (checkout day)

This will not be a formal report. This report will be done individually.

For the report:

1) List the name and structures of the original mixture you purified (be sure to include the amount of each component).

2) Draw a flow chart (as on pg 687 of PLKE) showing how you **actually** isolated and separated your two components. Show the full structures of the compounds present in each step of the flow chart (do not use 'R' groups to depict the compounds)

3) Write the final procedure as to how you actually performed your separation (This should be written up in sufficient detail so that another student in Chemistry 251 could follow it to separate and purify your mixture.)

4) Results and Conclusions:

1. Melting point range for each compound
2. Comment on the purity of each compound isolated: compare your mp to the literature value.
3. Explain any problems with the procedure and any modifications you made.
4. Explain what you would do differently if you were to repeat this experiment.
5. **Optional:** Attach the NMR of your purified neutral compound with the appropriate interpretation (as you did for the NMR day unknown)
6. Turn in your 2 samples each in their own small vial. Label the vial using tape. On the label put:

Your name

Compounds name

Melting point range