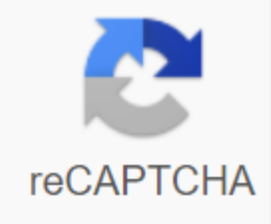




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## Organic chemistry laboratory notebook

Guidelines for the experience of laboratory notebooks in performing standard organic laboratory procedures is essential for the development of good organic chemistry laboratory skills. However, learning how to properly document experimental results is also very important. Documentation of the results requires the maintenance of a detailed laboratory research notebook. It is generally accepted that such a research notebook is necessary for the documentation of the work of any scientist. For example, an industrial research notebook is the legal basis for defending and obtaining patents. A research notebook should be a permanent, original and honest scientific record of all observations made and data obtained while working in the laboratory. General instructions. Hayden McNeil Student Lab notebook (available in library) is required. (An equivalent lab notebook with carbon-free duplicate pages is also acceptable.) Make sure that the back cover flap is placed between the set of pages on which the entry is made and the next original page. Duplicate yellow copies are boot and become the instructor at the required times throughout the semester. Important Do and Do Not Use Ink. The laboratory register must be permanent and pencil is therefore unacceptable. Label the notebook completely with all the information relevant to the course on the table of contents page. Keep the table of contents up to date. Do not use non-rough page backups Do not waste time being too clean. If you make a mistake, cross it out with one or two lines and continue (the original entry must be readable). Never record data on a loose sheet of paper first with the plan to copy it to the notebook later. Never delete any input, use Whiteout, or rip any white page. Make sure that each page is dated and identified with your name, course information, and the course and number of the experiment. Format. The notebook entries for each experiment should be divided into two sections, (1) the Pre-laboratory Plan and (2) the Journal in the laboratory. Each of these parts must be done on its own separate page(s). Do not start the journal in the lab on the same page that ends the pre-lab plan. Pre-laboratory plan- It will be completed before the start of each new experiment and delivered (yellow leaves) at the beginning of the laboratory period during which the experiment will begin. This section consists of the following: Experiment Number and Title References; Provide the title, author, and page numbers of all materials Used. Purpose: In two or three sentences describe the experiment in more detail than the title conveys. Indicate exactly what will be done and how the results will be evaluated. Structures and balanced chemical equation: Give the structures of all the compounds that are used in the experiment. If the experiment involves a chemical reaction, then the a chemical equation should be given showing the structures of the reagents to be used and the expected main product. Do not include equations for secondary reactions or give the full mechanism of the reaction being performed (these will be addressed in your lab report). Table of reagents and products: Include molecular weights, relevant physical constants (i.e. liquid densities to be measured by volume, bps of liquids, mps of solids) and quantities to be used of each reagent (in moles, as well as in the units in which it will be measured). Be sure to make the necessary calculations of the quantities to be used before the lab. Indicate whether each reagent is solid or liquid at room temperature and whether special safety precautions need to be taken with it. Also include molecular weight, relevant physical constants, and theoretical performance of the expected product(s). Planned procedures: It should be a relatively brief scheme (preferably in the form of a flowchart or step-by-step list) extracted from the procedure indicated in the laboratory text and/or on the steering wheel. When a handout provides additional suggestions or prescribes changes to the book procedures, they must be integrated into the planned procedures in logical places (that is, not just grouped at the end). Planned procedures should be complete enough to allow you to perform the experiment while referring only to your notebook. Include sketches of any glassware you need to assemble. In addition, the sequence should be emphasized in the realization of important steps. Try to anticipate any time delays that may exist and plan a productive way to use it this time. Safety precautions and MSDS: Include all special safety precautions associated with the specific experiment to be performed. Identify the particularly hazardous materials to be handled and the specific precautions to be taken with it. (Standard laboratory precautions, such as the use of eye protection at all times, should not be included here.) Find the MSDS for each chemical (if available) and add it to your Favorites list or save it to your computer in a folder that you can easily find during the lab. The idea is that MSDS information should be easily accessible during the lab when you are working with chemicals in case any questions arise. We'll check at the start of the lab to see that you have the MSDS available on your computer. In-lab Journal - To be completed during the lab and delivered to the instructor before leaving the lab. Make sure start a new page for each new day in the lab. The date at the top of the page should be the actual date when all the writing was made on that page! Observations and data go in the right column of the notebook page. All observations should be carefully observed - be sure to use enough words to properly describe what you observe. Remarks Remarks always include the appearances of all materials and starting products. Observations of color changes, odors, phase separations, heat evolution, gas evolution or any other unusual or unforeseen results are particularly important. Make it easy to find data entries by highlighting or placing them in a table. Never record data or observations first on a loose sheet of paper with the intention of copying it to your notebook later. The data that is recorded should include (if applicable): amounts of reagents actually used (measured) product weight obtained any physical constant that is measured (i.e. mp, bp, refractive index, etc.) file names for the actual MRI spectrum procedures go in the left column of the notebook page. During the lab you must faithfully record what you are doing while you are doing it. Don't just copy the lab manual or brochure procedure because you can actually do the job slightly differently. It is customary in scientific writing to use past time, passive voice: Bad - Now I am relaxating a solution of n-butyl alcohol and sulfuric acid. It's been two hours and now I'm discontinuing reflux. Better - I refluxed a solution of n-butyl alcohol and sulfuric acid for two hours.... Better - A solution of n-butyl alcohol and sulfuric acid was refluxed for two hours.... Signatures: - The three lab partners must sign at the bottom of the last page of the magazine, which means they have read and agree with what has been registered. Our Hayden-McNeil Organic Chemistry Lab notebooks offer your students superior quality at an affordable price. Our organic chemistry student lab notebook contains crisp, white carbon-free 100-page sets with fully laminated front and back covers and discipline-specific reference materials updated annually. 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