

CHEMISTRY 123

POST-LABORATORY QUESTIONS: FALL, 2005

Laboratory experiments are experiential exercises in learning. They are meant to broaden your chemistry experience and knowledge thru hands-on activities. To help you further, to accomplish this, several questions found in your laboratory text or handouts at the end of each experiment and relevant to the laboratory exercise just completed, are assigned for you to consider and to supply answers or solutions. These questions are also pertinent to the lecture material. The questions (in most instances limited to 3 or 4) are to be answered on a separate sheet of paper and turned in at the end of the laboratory experience. These will be checked and (ideally) returned to you at the next laboratory period. The sheets should then be taped into your laboratory notebook at the end of the experiment for which they are assigned. A grade may be attached to them so it is important that they be completed accurately. The questions are listed below. The page numbers refer to the laboratory text. To help you answer the questions you may refer to the introductory material for the experiment found in Mayo or use your McMurry text.

Gasoline: pg 49; 5-1 thru 5-5.

Partition Coefficient: Questions 1 thru 4 on the handout; pg 132: 6-23, 6-24.

Fractional Distillation: pg 122; 6-12, 6-16, 6-17.

Caffeine Isolation: pg 211; 6-71, 6-73.

2-Butanol Dehydration: pg 191; 6-55, 6-56, 6-57.

Bromine Addition: pg 445; 8-23, 8-25, 8-26.

Hydroboration: pg 229; 6-87, 6-90, 6-91.

Hydrogenation: pg 223; 6-82, 6-84, 6-85.