

Chemistry 235
Experiment 4 – Report Sheet

Name:	Lab Room:	Desk #:
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Pre-Lab Questions (Complete Prior to Lab)

1. Rank each of the following from lowest retention time (1) to highest retention time (4) in gas chromatography.
 - a. heptane, octane, nonane, and decane.
 - b. benzene, toluene, ethyl benzene, and xylene.
2. 2-pentanol (an alcohol) and 3-hexanone (a ketone) have nearly identical boiling points. Does this mean that these two compounds cannot be separated by GC? Explain.
3. Suppose you find that two compounds have identical retention times. List a couple of things that you might try to get a separation of the compounds?

Experimental Data (Complete During Lab)

Unknown			
Table of GC Peaks for Unknown	Retention Time	Area	Relative %
	Total Area:		100%
List the esters present in your unknown sample			
Compare these results with the results from the distillation experiment			