

CHEM 237 – Organic Chemistry Laboratory I [Majors]  
Experiment #5 – Column Chromatography  
Worksheet

Name: \_\_\_\_\_

TA: \_\_\_\_\_

**Sample Data – Original Sample [1:1]**

Mass used \_\_\_\_\_

**Sample Data - Fluorene**

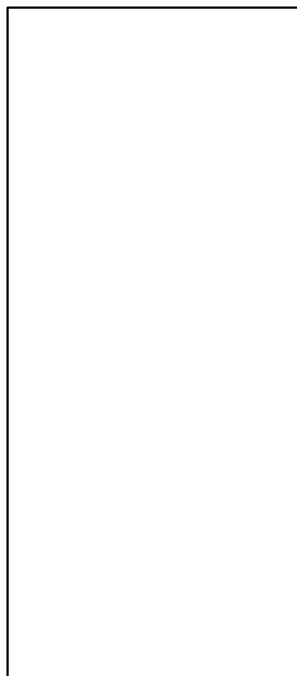
- ♦ Appearance \_\_\_\_\_
- ♦ Mass isolated \_\_\_\_\_
- ♦ Percent Recovery \_\_\_\_\_
- ♦ Melting point \_\_\_\_\_

**Sample Data - Fluorenone**

- ♦ Appearance \_\_\_\_\_
- ♦ Mass isolated \_\_\_\_\_
- ♦ Percent Recovery \_\_\_\_\_
- ♦ Melting point \_\_\_\_\_

**Thin-layer chromatography**

- ♦ Draw your developed TLC plate on the blank plate on the next page.
  - ♦ Provide the R<sub>f</sub> values of fluorene and 9-fluorenone.
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Rf [fluorene] (15% CH<sub>2</sub>Cl<sub>2</sub>/pet. ether) \_\_\_\_\_

Rf [fluorenone] (15% CH<sub>2</sub>Cl<sub>2</sub>/pet. ether) \_\_\_\_\_

Blank TLC Plate

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Please copy in your handwriting the following statement and sign in the box below.

*"I pledge on my honor that I have not given or received any unauthorized assistance on this laboratory worksheet."*

Statement Box:

Signature \_\_\_\_\_

Lab Grade

Pre-lab quiz \_\_\_\_\_

Worksheet \_\_\_\_\_

Lab notebook \_\_\_\_\_

Post-lab \_\_\_\_\_

Overall \_\_\_\_\_

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