

# Unknown Report Sheet

## Chemistry 136

### Spring 2001

(One form for each component if a multi-component unknown is given)

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

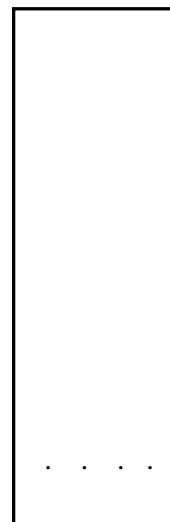
Drawer #: \_\_\_\_\_

Date: \_\_\_\_\_

**Unknown Number:** \_\_\_\_\_

1. Physical Appearance (color, form of the crystals, etc.):

2. TLC Analysis (SiO<sub>2</sub>, solvent, UV lamp or stain)



3. Physical constants (mp, bp, corrected values): \_\_\_\_\_

4. Molecular Formula: \_\_\_\_\_ Degree of Unsaturation: \_\_\_\_\_

5. Method of separation or purification:





10. Derivatives (give equation and conditions, as well as brief experimental description):

11. Proposed structure:

12. Relevant literature data supporting structure:

13. Logical reasoning used in deriving structure:

(less than 1 page in most cases. By citing specific data you have obtained, prove that your structure is correct, eg. a C=O stretch in IR + corresponding C=O absorption in  $^{13}\text{C}$  NMR to determine it's a ketone)