

Name \_\_\_\_\_ Date \_\_\_\_\_

TA and Lab Day \_\_\_\_\_ Unknown Number \_\_\_\_\_

1) Physical properties:

Physical state \_\_\_\_\_ Color \_\_\_\_\_

Ignition test \_\_\_\_\_ m.p./b.p \_\_\_\_\_

2) Beilstein test \_\_\_\_\_

3) Solubility tests

H <sub>2</sub> O	pH (if H <sub>2</sub> O sol)	NaOH	NaHCO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>

4) IR spectrum (if liquid)-attach spectrum; NMR spectrum (if solid)

Interpretation of results:

5) Functional group tests

Test/reagent	Observations	Conclusions

6) Derivative preparation:

Derivative name	Observed melting point	Literature m. p.

7) Attach a sheet of paper describing any other pertinent observation or comments regarding your unknown, an interpretation of your results, and **equations** (whenever possible) illustrating the results of the solubility tests, positive functional group tests and synthesis of the derivative(s). Identify your unknown compound by writing both the name and structural formula of the compound. This is the discussion/interpretation section of your report.