

Name _____ Date _____

Pre-Lab Assignment for Organic Qualitative Analysis

Your TA will assign a compound to you. Answer the following questions about this compound using the information in the following documents:

[Organic Qualitative Analysis](#) (from the lab courses website)

<https://macmillan.app.box.com/s/rsei6421qgfg9blthi28o21eh3jiqtna>

<https://macmillan.app.box.com/s/c7hqxprs96j11klpq1cupq5ehlo7kqeo>

The purpose of this assignment is to familiarize you with the qualitative analysis text and with reading the tables. The compound that is assigned to you for this pre-lab assignment has no direct relationship to the unknowns that your TA will assign to you.

Draw the structure.

Is it a solid or liquid? Give the melting or boiling point.

What kind of flame would you expect to see in an ignition test of this compound?

What would you expect to observe for the Beilstein test?

Fill out the solubility table for the compound. Use *i* for insoluble, *s* for soluble, NA for "not applicable". Indicate acidic, basic or neutral for pH in water.

H ₂ O	pH (if H ₂ O sol)	NaOH	NaHCO ₃	HCl	H ₂ SO ₄

Which functional group tests would give a positive result for this compound? What observations would you expect to make for these functional group tests?

Which derivative is the best choice for helping to identify this compound? Would it be necessary to make more than one derivative? Explain your reasoning for the derivative(s) you chose.