

Name: _____

Desk #: _____

Experiment 24 Report

Qualitative Organic Analysis – Identification of an Unknown

Unknown #: _____

Physical Properties

Color	
Odor	
Physical State	
Refractive Index	
Melting Point	
Micro Boiling Point	

Infrared Spectrum

Significant IR signals present/absent and interpretation:

Solubility

- Water Soluble Compound**

pH of water-soluble compound:

Solubility in diethylether:

- Water Insoluble Compound** – Check solubility in:

5% aq. HCl	5% aq. NaOH	5% aq. NaHCO ₃

Classification Tests

Test(s) Performed and Results

Name: _____

Desk #: _____

Derivatives

Prepare only derivatives which are appropriate for your unknown.

In the summary, list the names and physical constants for your unknown and the melting points of the derivatives you prepared. Also list the names and physical constants for compounds which might be your unknown and the melting points of the derivatives of the compounds.

Type:	Physical Constants of Derivatives <i>Give the type of derivative</i>	
Names of Possible Unknown Compounds with mp or bp, and refractive index	mp (°C)	mp (°C)
Unknown:		

The Unknown is:

--

Reasons for Conclusion: