

332 PL3: Derivative Preparation

Name: _____

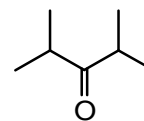
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You may only start on preparing a derivative after your functional group has been confirmed. Please turn in L2 before beginning this portion of the experiment.

1. If there are two or three recrystallization solvents suggested, how could you determine the best one to use without wasting more than 20-30 mg of your derivative?

2. In your own words, briefly describe the theory and practical aspects of doing a “mixed solvent recrystallization.”

3. If your unknown were 2,4-dimethyl-3-pentanone, what derivative(s) or other information would allow you to reliably distinguish your unknown from compounds with similar boiling points? Use specific values.



4. What derivatives will you need to best determine your unknown? Describe the procedure and the expected outcomes.