Organic Chemistry 2 Lab - Final Exam Study Guide

1. What kind of rxn is the Williamson Ether rxn?
   - SN2
2. What species served as the nucleophile in the Williamson Ether lab?
   - 4-phenyl phenol
3. What are the dangers of benzyl chloride?
   - acute toxicity, corrosive, combustible
4. Where would the benzyl proton signals be in H-NMR?
   - 6.0-8.0 ppm
5. What are the most common leaving groups in the Williamson ether synthesis?
   - bromide, chloride, and tosylate
6. What components are used in the Williamson ether synthesis to create an ether?
   - deprotonated alcohol and an electrophile that is an organic molecule with a good leaving group
7. What is the reactivity order of electrophile in SN1 rxns?
   - tertiary, secondary, primary (worst)
8. What is the order of reactivity for electrophilics in SN2 reactions?
   - primary, secondary, tertiary
9. What kind of solvent is used in the production of SN2?
   - polar aprotic (DMSO, acetone)
10. What kind of solvent is utilized in the production of SN1?
    - polar protic (alcohols)
11. What is the difference between nucleophiles for SN1 and SN2?
    - SN1 requires a weak nucleophile and SN2 requires a strong nucelophile that is usually bearing a negative charge
12. What are some examples of common oxidizing agents?
    - PCC, H2CrO4, DMP, Swern
13. What is the primary MTBE safety concern?
    - flammable
14. T/F: The bleach targets the oxygen of isoborneol in the chemical process for its oxidation.
    - False; Because isoborneol's oxygen is more electronegative than bleach's chlorine, it attacks the bleach.
15. What happens during the sublimation process?
    - a solid turns into a gas
16. If the oxidation of isoborneol is completed, what wavelength will there be a peak in the IR?

Organic Chemistry Ii Lab Guide

Arnold Frederick Holleman

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