

Acyl Chlorides and Acid anhydrides

Pre-lesson assignment – Textbook page 469 - 471

Make notes on acyl chlorides

Use the following questions as guidance

1. Write an equation showing the formation of esters from acyl chlorides and alcohols
2. Explain, in terms of reactivity, why phenol does not form esters with carboxylic acids.
3. Explain, including an equation, why acyl chlorides are kept away from aqueous solutions.
4. Explain how acyl chlorides can be used to form amides, using equations.
5. Explain why acid anhydrides are used instead of acyl chlorides, and give an example of an ester formed using an acid anhydride.