

Properties of Alcohols

Pre-lesson assignment – Textbook page 222-224 (also pages 74-80)

Define the following terms

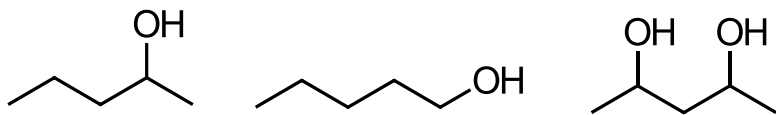
- Hydrogen bond
- Volatility

Now watch the video on hydrogen bonding

Make notes on the properties of alcohols

Use the following questions as guidance

1. Give three uses of alcohols.
2. Name these alcohols:



3. What type of structure would you expect alcohols to have?
4. Explain how the different chain lengths of alkanes leads to different boiling points.
5. Why are O-H bonds polar?
6. Draw a diagram to show how water interacts with a molecule of ethanol.
7. Explain why alcohols dissolve in water.
8. Show how two molecules of ethanol would interact with each other.
9. Why are alcohols less volatile than the alkanes?
10. How does the extent of hydrogen bonding affect boiling point?