

MINISTRY OF EDUCATION

SECONDARY ENGAGEMENT PROGRAMME

GRADE 11

CHEMISTRY

WEEK 6

LESSON 1 - WORKSHEET

1. The functional group of alcohols is _____.
 - A. Carboxy
 - B. Hydroxyl
 - C. Carbon-Carbon Double Bond
 - D. Carbon-Carbon Single Bond
2. Alcohol with five carbon atoms per molecules is
 - A. Butanol
 - B. Pentanol
 - C. Heptanol
 - D. Octanol
3. Alcohol Molecules are described as
 - A. Polar
 - B. Non-polar
 - C. Neither Polar nor Non-Polar
 - D. Both Polar and Non- polar
4. Alcohols are _____ in water.
 - A. Soluble
 - B. Insoluble
 - C. Slightly soluble
 - D. Slightly insoluble
5. As the number of carbon atoms per molecule increases, the boiling point of the alcohol
 - A. Increases
 - B. Decreases
 - C. Stays the same
 - D. None of the above

6. Arrange these alcohols in order of increasing boiling point: ethanol, methanol, and 1-propanol.
7. Which has the higher boiling point—butane or 1-propanol?
8. Arrange these alcohols in order of increasing solubility in water: 1-butanol, methanol, and 1-octanol.
9. Arrange these compounds in order of increasing solubility in water: 1-butanol, ethanol, and pentane.
10. Why is ethanol more soluble in water than 1-hexanol?

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6. methanol < ethanol < 1-propanol

8. 1-octanol < 1-butanol < methanol

10. Ethanol has an OH group and only 2 carbon atoms; 1-hexanol has one OH group for 6 carbon atoms and is thus more like a (nonpolar) hydrocarbon than ethanol is.