

1.9.3.1: Practice Solution Properties

Exercise 1.9.3.1.1

Which of the following would conduct electricity well if dissolved in water?

- A) glucose ($C_6H_{12}O_6$)
- B) baking soda ($NaHCO_3$)
- C) ethanol (C_2H_6O)

Answer

B) baking soda (sodium bicarbonate) is ionic and dissociates into ions when dissolved.

Exercise 1.9.3.1.1

Which of the following would result in increased solubility of a gas in water?

- A) increased pressure
- B) increased temperature

Answer

A) increased pressure, according to Henry's Law, increases the solubility of a gas. Increased temperature generally decreases the solubility of a gas in water.

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