

### 1.9.3.1: Practice Solution Properties

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#### Exercise 1.9.3.1.1

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

- A) glucose ( $\text{C}_6\text{H}_{12}\text{O}_6$ )
- B) baking soda ( $\text{NaHCO}_3$ )
- C) ethanol ( $\text{C}_2\text{H}_6\text{O}$ )

**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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