

Physical Properties

Example One

Which properties are associated with low volatility? Select all that apply.

- (a) Weak intermolecular forces
- (b) High molar masses
- (c) High boiling points
- (d) Low melting points

Example Two

Which increases the volatility of a compound? Select all that apply.

- (a) Increasing the strength of the intermolecular forces
- (b) Decreasing the strength of the intermolecular forces
- (c) Increasing the temperature
- (d) Decreasing the temperature

Example Three

Which of the following increases the vapor pressure of a liquid? Select all that apply.

1. an increase in temperature
2. an increase in the strength of intermolecular forces
3. increasing the surface area of the liquid

Example Four

Which of the following statements about viscosity are accurate? Select all that apply.

- a. Viscosity increases with increasing molar mass.
- b. Viscosity increases with increasing temperature.
- c. Viscosity increases with decreasing intermolecular attractions.

Example Five

Which of the following will cause vapor pressure to decrease? Select all that apply.

- a. Increasing hydrogen-bonding
- b. Decreasing surface area
- c. Higher volatility
- d. Higher viscosity

Example Six

What is viscosity?

- a. The skin on a liquid due to unbalanced intermolecular attractions.
- b. Resistance to flow
- c. Unaffected by temperature
- d. Unaffected by molar mass