

AP Chemistry MCQ Practice

Good luck on the AP Chem exam!

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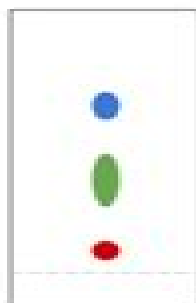
1. Which of the following has the highest melting point?

a. $\text{KBr}(s)$
b. $\text{MgCl}_2(s)$
c. $\text{MgO}(s)$
d. $\text{LiF}(s)$

2. The reaction $\text{X} + 2\text{Y} \rightarrow 2\text{Z}$ is first order with respect to X. After 60 seconds, $[\text{X}]$ drops from 0.10 M to 0.010 M. What will $[\text{X}]$ be after 120 seconds?

a. $1.0 \times 10^{-3} \text{ M}$
b. $5.0 \times 10^{-4} \text{ M}$
c. $2.0 \times 10^{-4} \text{ M}$
d. $1.0 \times 10^{-5} \text{ M}$

3. A student uses paper chromatography to investigate the composition of pen ink, in which deionized water was used as the mobile phase. The following chromatogram was obtained.



The same experiment is repeated using column chromatography, in which silica is used as the stationary phase. Which compound is the most likely to reach the bottom of the column first?

a. Red

b. Green
c. Blue
d. They are all equally likely to reach the bottom first

4. Equal masses of KCl are dissolved into a beaker filled with deionized water and one filled with potassium iodide. What can be said about the concentration of Cl^- in both solutions?

a. It will be greatest in the water solution
b. It will be greatest in the KI solution
c. It will be the same in both solutions
d. Not enough information to tell

5. Butane gas, or $\text{C}_4\text{H}_{10}(g)$, is kept in a rigid, compressible chamber. The gas is endothermically combusted to form carbon dioxide and water, the latter of which is drained away. Which of the following would increase the rate of the reverse reaction?

a. Increasing the temperature
b. Adding more butane gas
c. Not draining the water
d. Making the chamber noncompressible

6. Enzymes are used to catalyze a biological reaction. Which graph best represents the reaction rate as a function as the substrate concentration?



a.



b.

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ML Morrison



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