Chemistry, 10th Edition

General Chemistry 107: 1 &5 Taught by Abdullah Saleh

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Chapter 2	Question 1
Chapter 3 (free)	Which of the following substances can form hydrogen bonds?
Chapter 4 Chapter 5	Substances: (1) CH ₃ COCH ₃ ; (2) CH ₃ OH; (3) C ₂ H ₆ ; (4) HCOOH
Chapter 6	
	○ A) compounds 1 and 2○ B) compounds 1 and 3
Chapter 7 (free) Chapter 8	C) compounds 1, 2, and 3
	OD) compounds 2 and 4
Chapter 9	○ E) compounds 1, 2, and 4
Chapter 10	Question 2
Chapter 11 Quizzes Self Assessment A	Samples of which one of the following substances exhibits both dipole-dipole forces and hydrogen bonding? (A) HCI (B) PH ₃ (C) Br ₂
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Chapter 12	Question 3
Chapter 13	In which of the following substances are dispersion forces likely to be the most important intermolecular interaction in determining the melting and boiling points?
Chapter 14	O A) Br ₂
Chapter 15	○ B) H ₂ S
Chapter 16	O C) CO
Chapter 17	() D) HCI () E) ICI
Chapter 18	
Chapter 19	Question 4
Chapter 20	At a given temperature, which of the following liquids should have the highest viscosity? (A) CH ₂ Br ₂
Chapter 21	() B) HOCH ₂ CH ₂ OH
Chapter 22	○ C) CH ₂ CH ₂ OH
Chapter 23	OD) CH ₃ Cl
Chapter 24	○ E) CH ₃ OCH ₃
Chapter 25	Question 5
Study Tools	Krypton crystallizes in a structure that has four Kr atoms in each unit cell, and the unit cell is a cube. The edge length of the unit cell is 0.559
Study on the Fly	nm. Calculate the density of crystalline Kr, in kg/m ³ . (A) 9.97 x 10 ⁻¹³ kg/m ³ (B) 3.14 x 10 ³ kg/m ³
	○ c) 3.14 kg/m³ ○ D) 3.19 x 10 ³ kg/m³
	Question 6
	 At room temperature, SiO₂ is a solid, whereas CO₂ is a gas. This is because A) both are molecular, but the dispersion forces between SiO₂ molecules are stronger because SiO₂ is the larger of the two compounds. B) both are molecular, but CO₂ is linear whereas SiO₂ is bent, and therefore has dipole-dipole attractions.
	\bigcirc C) CO ₂ is molecular, whereas SiO ₂ is a covalent network solid. \bigcirc D) CO ₂ is molecular whereas SiO ₂ is ionic.

Question 7

OA) MgCl₂

Which of the following compounds should have the highest melting point?

○ B) BCl ₃ ○ C) NCl ₃ ○ D) CCl ₄
Question 8
Vhich of the following substances would have the greatest electrical conductivity in the solid state? ○ A) K ○ B) KI ○ C) I ○ D) IF
Question 9
lse the Clausius-Clapeyron equation to estimate the boiling point of water at 24.0 torr pressure. The average (H _{vap} for water over the elevant temperature range is 42.34 kJ/mol).
○ A) 33.2 °C
○ B) 25 °C ○ C) 298 °C
○ b) 80 °C
Question 10
cetic acid has a heat of fusion of 10.8 kJ/mol and a heat of vaporization of 24.3 kJ/mol. The estimated value for the heat of sublimation o cetic acid is
○ A) -13.5 kJ/mol.
○ B) -35.1 kJ/mol. ○ C) 13.5 kJ/mol.
○ C) 17.6 kJ/mol.
E) 35.1 kJ/mol.

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