

PHYSICAL CHEMISTRY 1: PROBLEM SET 1

TOPICS:

GENERALIZATIONS FROM IDEAL GAS BEHAVIOR

COMPRESSIBILITY FACTOR Z

VAN DER WAALS EQUATION OF STATE

1. Calculate the molar volume of chlorine gas at 350K and 2.30atm using (a) the perfect gas law and (b) the van der Waals equation.
2. A certain gas obeys the van der Waals equation with $a = 0.50 \text{ m}^6 \text{ Pa mol}^{-2}$. Its volume is found to be $5.00 \times 10^{-4} \text{ m}^3 \text{ mol}^{-1}$ at 273 K and 3.0 MPa. Solve for the van der Waals constant b . What is the compression factor for this gas at the prevailing temperature and pressure.
3. A vessel of volume 22.4L contains 2.0mol H_2 and 1.0 mol N_2 at 273.15K. Calculate the (a) the mole fractions of each component, (b) their partial pressures, and (c) their total pressure
4. Suppose that 10.0 mol C_2H_6 is confined to 4.860 L at 27°C. Predict the pressure exerted by the ethane from (a) the perfect gas and (b) the van der Waals equation of state. Calculate the compression factor based on these calculations. For ethane, $a = 5.562 \text{ L}^2 \text{ atm mol}^{-2}$, $b = 0.06380 \text{ L mol}^{-1}$
5. The density of water vapour at 327.6 atm and 776.4 K is 133.2 g dm^{-3} . (a) Determine the molar volume, V_m , of water and the compression factor, z , from these data. (b) calculate z from the van der Waals equation with $a = 5.536 \text{ L}^2 \text{ atm mol}^{-2}$ and $b = 0.03049 \text{ L mol}^{-1}$
6. In an industrial process, nitrogen is heated to 500 K at a constant volume of 1.000 m³. The gas enters the container at 300 K and 100 atm. The mass of the gas is 92.4 kg. Use the van der Waals equation to determine the approximate pressure of the gas at its working temperature of 500 K. For nitrogen, $a = 1.378 \text{ L}^2 \text{ atm mol}^{-2}$, $b = 3.183 \times 10^{-2} \text{ L mol}^{-1}$
7. Could 131 g of xenon gas in a vessel of volume 15 L exert a pressure of 2.0 bar at 30°C if it behaved as a perfect gas? If not, what pressure would it exert? (b) What pressure would it exert if it behaved as a van der Waals gas?
8. A gas at 250 K and 15 atm has a molar volume 12 percent smaller than that calculated from the perfect gas law. Calculate (a) the compression factor under these conditions and (b) the molar volume of the gas. Which are dominating in the sample, the attractive or the repulsive forces?

Problem Set 1 Episode 501 Chemistry Answers

Shasha Hu



Problem Set 1 Episode 501 Chemistry Answers:

The Top Books of the Year Problem Set 1 Episode 501 Chemistry Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Problem Set 1 Episode 501 Chemistry Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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