

$$\begin{aligned}
 B' &= \frac{B}{RT} = \frac{-(110 \text{ cm}^3 \text{ mol}^{-1})(10^{-3} \text{ L cm}^{-3})}{(0.08314 \text{ L bar K}^{-1} \text{ mol}^{-1})(400 \text{ K})} \\
 &= -3.31 \times 10^{-3} \text{ bar}^{-1} \\
 Z &= 1 + B'P = 1 - (3.31 \times 10^{-3} \text{ bar}^{-1})(50 \text{ bar}) \\
 &= 0.835
 \end{aligned}$$

7. 1.5 Show that the virial equation written in terms of pressure has the following form for a van der Waals gas $Z = 1 + [b - (a/RT)](P/RT)$ if terms in P^2 , P^3 , etc., are neglected.

SOLUTION

$$P = \frac{RT}{V-b} - \frac{a}{V^2} \qquad \frac{PV}{RT} = \frac{V}{V-b} - \frac{a}{VRT}$$

Adding and subtracting $\frac{V-b}{V-b}$ on the right side of the equation

$$\frac{PV}{RT} = 1 + \frac{b}{V-b} - \frac{a}{VRT}$$

Since the second and third terms are small correction terms, b can be ignored in comparison with V ; and V in the second and third term can be replaced by RT/P .

$$Z = 1 + \frac{bP}{RT} - \frac{aP}{(RT)^2} = 1 + \left[b - \frac{a}{RT} \right] \left[\frac{P}{RT} \right]$$

- 1.6 Show that for a gas of spherical molecules b in the van der Waals equation is four times the molecular volume times Avogadro's constant.

SOLUTION

The molecular volume for a spherical molecule is

$$\frac{4}{3}\pi\left(\frac{d}{2}\right)^3 = \frac{\pi}{6}d^3$$

Alberty Physical Chemistry Manual Solution

Huangqi Zhang



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Physical Chemistry : Solutions Manual Robert A. Alberty, 1980 *Solutions Manual for Principles of Physical Chemistry, 3rd Edition* Hans Kuhn, David H. Waldeck, Horst-Dieter Försterling, 2024-10-29 This is a Solutions Manual to Accompany with solutions to the exercises in the main volume of *Principles of Physical Chemistry Third Edition*. This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry which are the foundational principles of Chemistry. The book introduces the student to the principles underlying the essential sub fields of quantum mechanics, atomic and molecular structure, atomic and molecular spectroscopy, statistical thermodynamics, classical thermodynamics, solutions and equilibria, electrochemistry, kinetics and reaction dynamics, macromolecules and organized molecular assemblies. Importantly, the book develops and applies these principles to supramolecular assemblies and supramolecular machines with many examples from biology and nanoscience. In this way, the book helps the student to see the frontier of modern physical chemistry developments. The book begins with a discussion of wave particle duality and proceeds systematically to more complex chemical systems in order to relate the story of physical chemistry in an intellectually coherent manner. The topics are organized to correspond with those typically given in each of a two course semester sequence. The first 13 chapters present quantum mechanics and spectroscopy to describe and predict the structure of matter, atoms, molecules, and solids. Chapters 14 to 29 present statistical thermodynamics and kinetics and apply their principles to understanding equilibria, chemical transformations, macromolecular properties, and supramolecular machines. Each chapter of the book begins with a simplified view of a topic and evolves to more rigorous description in order to provide the student and instructor flexibility to choose the level of rigor and detail that suits them best. The textbook treats important new directions in physical chemistry research including chapters on macromolecules, principles of interfaces and films for organizing matter, and supramolecular machines, as well as including discussions of modern nanoscience, spectroscopy, and reaction dynamics throughout the text.

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web the basic paint formulation and ingredients are listed in table 4 1 amounts are normally stated in units of weight for accuracy 97 accurate metering equipment permits measuring the liquids in units of volume the significant relationships among the ingredients of the dried paint film are volume relationships not weight relationships

chemical formulations for acrylic matt and acrylic gloss paints - Jan 30 2023

web may 25 2022 an acrylic white matt emulsion paint is known to consist of 25 pigments 44 solvents 12 extender pigments 5 additives and 14 binders figure 1 2 table 1 chemical name molecular formula

starting point formulations byk - Oct 07 2023

web on these pages we offer starting point formulations for pigment concentrates for the use in decorative coatings general industrial coatings wood and furniture coatings and household industrial and institutional cleaners polishes and laundry detergents

coatings formulation de gruyter - Feb 28 2023

web apr 6 2017 developing paint recipes or paint formulations is an important part of paint and coatings technology unfortunately paint recipes are listed in very few publications because they are closely guarded secrets of the paint and coatings industry