

Unit 5 Gases and Atmospheric Chemistry

CHAPTER 11 Properties of Gases

11.1 Gases: Properties and Behaviour

Table 11.1 Properties and Particles of The Three States of Matter

State	Properties	Particles
Solid	• Constant shape • Constant volume • Almost incompressible	• Particles are organized in a regular pattern (this is also known as having “low disorder”) and they vibrate in a fixed position.
Liquid	• Variable shape • Constant volume • Almost incompressible	• Particles are less organized than in a solid and they are able to slide over and past one another.
Gas	• Variable shape • Variable volume • Compressible (can be pushed or squeezed by a force to occupy a smaller volume)	• Particles are much less organized than in other states and they bounce off each other and the walls of their container.

- Each particle of a solid is only able to vibrate around a fixed point, this is called **vibrational motion**.
- Liquid particles move with **rotational motion** as well as **vibrational motion**.
- Gas particles move with all three types of motion: **vibrational, rotational, and translational**.

gas changes to the liquid state. This is known as **condensation**.

Forces Between Particles

Attractions Between Charged Particles

electrostatic attraction

Ionic bonds, strong, solids

Attractions Between Polar Molecules

Intermolecular forces are forces that exist between neutral molecules, or between molecules and ions.

dipole–dipole

Attractions Between Non-Polar Molecules

dispersion forces

The Relationship Between Size and State

molecules size ↑, melting and boiling points ↑.

Methane (CH_4) small non-polar molecule, very low boiling point, gas at room temperature.

Pentane (C_5H_{12}) is a larger non-polar molecule, higher boiling point, liquid at room temperature.

The Effect of Kinetic Energy on the State of a Substance

temperature ↑, kinetic energy ↑, substance changes in state

Kinetic Molecular Theory of Gases

The kinetic molecular theory of gases makes the following assumptions:

- The volume of an individual gas molecule.

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Lei Huang



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Atmospheric Chemistry Julian Heicklen, 1976 **The NCAR Master Mechanism of the Gas Phase Chemistry** Sasha Madronich, 1989 *Atmospheric Chemistry and Greenhouse Gases*, 2001 Chapter 4 of the IPCC Third Assessment Report Climate Change 2001 The Scientific Basis Sections include Executive Summary 2414 1 Introduction 2434 2 Trace Gases Current Observations Trends and Budgets 2484 3 Projections of Future Emissions 2664 4 Projections of Atmospheric Composition for the 21st Century 2674 5 Open Questions 2774 6 Overall Impact of Global Atmospheric Chemistry Change 279 **Atmospheric Chemistry** E. Mészáros, 1981-10-01 Atmospheric Chemistry Chemistry of Multiphase Atmospheric Systems Wolfgang Jaeschke, 2014-01-15 Atmospheric Chemistry of Gas-phase and Particle-associated Polycyclic Aromatic Hydrocarbons R. Chirico, 2007 **Atmospheric Chemistry** Mr. Ajeet Singh, 2018-05-22 This book examines chemical processes in the atmosphere including photochemistry pollution chemistry and climate interactions with applications in environmental science and meteorology **Observation of Trace Gases from the Atmospheric Chemistry Experiment**, 2011 **Gas-phase Atmospheric Chemistry by Cavity Ringdown Spectroscopy and Quantum Chemistry Studies** Liming Wang, 2002 **Gas and Particle Phase Measurements of Atmospheric Organic Compounds** Douglas A. Lane, 2020-11-17 It is becoming increasingly important to understand how and why semivolatile atmospheric pollutants partition between gas phase and particulate matter in the atmosphere In this text the world's leading researchers in the field explain the significance of gas particle ratios physical and chemical parameters determining how semivolatiles partition in the atmosphere how gas particle ratio measurements are made what artefacts occur during sampling and novel new techniques and instruments for obtaining artefact free results Intended to be a reference book and a guide for those who study the gas particle ratios of semivolatile atmospheric compounds This book will be of interest to beginners in the field as well as those who have been involved in the field for many years and would like in a single reference text a comprehensive compendium of what is known about the theory and practice of gas particle phase measurements *Gas-phase Kinetic Studies of Relevance to Atmospheric Chemistry* Yvonne Andersson, 1989 **Gas-phase Tropospheric Chemistry of Organic Compounds** Roger Atkinson, 1994-01-01 **Atmospheric Chemistry of Gas Phase and Particle Associated Polycyclic Aromatic Hydrocarbons** R. Chirico, 2007 **Atmospheric Chemistry of Chlorine and Sulfur Compounds** American Geophysical Union. Section of Meteorology. Committee on Atmospheric Chemistry, 1971 *Kinetic Gas Phase Studies of Three Species, Important in Atmospheric Chemistry, Using UV and IR Spectroscopic Techniques* Yvonne Andersson, 1987 *Air Composition and Chemistry* Peter Brimblecombe, 1986 This book is about the atmosphere and mankind's influence on it Copyright Libri GmbH All rights reserved *An Introduction to the Gas Phase* Claire Vallance, 2017-11-23 An Introduction to the Gas Phase is adapted from a set of lecture notes for a core first year lecture course in physical chemistry taught at the University of Oxford The book is intended to give a relatively concise introduction

to the gas phase at a level suitable for any undergraduate scientist After defining the gas phase properties of gases such as temperature pressure and volume are discussed The relationships between these properties are explained at a molecular level and simple models are introduced that allow the various gas laws to be derived from first principles Finally the collisional behaviour of gases is used to explain a number of gas phase phenomena such as effusion diffusion and thermal conductivity **Atmospheric Chemistry** ,1997 **Atmospheric Chemistry Educational Resources** ,1999

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