

CHAPTER OVERVIEW

27: The Kinetic Theory of Gases

- 27.1: The Average Translational Kinetic Energy of a Gas
- 27.2: The Gaussian Distribution of One Component of the Molecular Velocity
- 27.3: The Distribution of Molecular Speeds is Given by the Maxwell-Boltzmann Distribution
- 27.4: The Frequency of Collisions with a Wall
- 27.5: The Maxwell-Boltzmann Distribution Has Been Verified Experimentally
- 27.6: Mean Free Path
- 27.7: Rates of Gas-Phase Chemical Reactions
- 27.E: The Kinetic Theory of Gases (Exercises)

27: The Kinetic Theory of Gases is shared under a [CC BY-NC-SA 4.0](#) license and was authored, remixed, and/or curated by LibreTexts.