

## 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.