

CHAPTER OVERVIEW

2: Properties of Gases

The study of gases allows us to understand the behavior of matter at its simplest: individual particles, acting independently, almost completely uncomplicated by interactions and interferences between each other. This knowledge of gases will serve as the pathway to our understanding of the far more complicated *condensed phases* (liquids and solids) in which the theory of gases will no longer give us correct answers, but it will still provide us with a useful *model* that will at least help us to rationalize the behavior of these more complicated states of matter.

[2.1: Some Definitions](#)

[2.2: An Operational Definition of Temperature](#)

[2.3: Ideal Gases](#)

[2.4: Real Gases](#)

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[2.6: Kinetic Theory of Gases](#)

[2.7: The Maxwell Distribution Laws](#)

[2.8: Molecular Collisions and the Mean Free Path](#)

[2.9: Graham's Laws of Diffusion and Effusion](#)

[2.E: Properties of Gases \(Exercises\)](#)

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