

## CHAPTER OVERVIEW

### 9: Chemical Kinetics

*Chemical kinetics* is the study of the speed with which a *chemical* reaction occurs and the factors that affect this speed. This information is especially useful for determining how a reaction occurs.

#### Topic hierarchy

- [9.1: Reaction Rates](#)
- [9.2: Reaction Order](#)
- [9.3: Molecularity of a Reaction](#)
- [9.4: More Complex Reactions](#)
- [9.5: The Effect of Temperature on Reaction Rates](#)
- [9.6: Potential Energy Surfaces](#)
- [9.7: Theories of Reaction Rates](#)
- [9.8: Isotope Effects in Chemical Reactions](#)
- [9.9: Reactions in Solution](#)
- [9.10: Fast Reactions in Solution](#)
- [9.11: Oscillating Reactions](#)
- [9.E: Chemical Kinetics \(Exercises\)](#)

---

9: Chemical Kinetics is shared under a [CC BY-NC-SA 4.0](#) license and was authored, remixed, and/or curated by LibreTexts.