# CHAPTER OVERVIEW

## 11: Computational Quantum Chemistry

Computational chemistry is the field of chemistry that uses mathematical approximations and computer programs to solve problems of chemical interest. Quantum chemistry is a subfield that addresses the equations and approximations derived from the postulates of quantum mechanics; specifically involving solving the Schrödinger equation for molecular systems. Quantum chemistry is typically separated into a*b initio*, which uses methods that do not include any empirical parameters or experimental data and semi-empirical which do.