

CHAPTER OVERVIEW

6: Chemical Composition

Chapter 6 is concerned with the amounts of substances which participate in chemical reactions, the quantities of heat given off or absorbed when reactions occur, and the volumes of solutions which react exactly with one another. These seemingly unrelated subjects are discussed together because many of the calculations involving them are almost identical in form. The same is true of the density calculations, and of the calculations involving molar mass and the Avogadro constant.

[6.1: Prelude to Chemical Composition - How Much Sodium?](#)

[6.2: Counting Nails by the Pound](#)

[6.3: Counting Atoms by the Gram](#)

[6.4: Counting Molecules by the Gram](#)

[6.5: Chemical Formulas as Conversion Factors](#)

[6.6: Mass Percent Composition of Compounds](#)

[6.7: Mass Percent Composition from a Chemical Formula](#)

[6.8: Calculating Empirical Formulas for Compounds](#)

[6.9: Calculating Molecular Formulas for Compounds](#)

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