

**CHEMFILE MINI-GUIDE TO PROBLEM SOLVING**

## *Concentration of Solutions*

There are three principal ways to express solution concentration in chemistry — percentage by mass, molarity, and molality.

The following table compares these three ways of stating solution concentration. Examining the method of preparation of the three types may help you understand the differences among them.

	Symbol	Meaning	How to prepare
Percentage	%	Grams solute per 100 g of solution	5%: Dissolve 5 g of solute in 95 g solvent.
Molarity	M	Moles solute per liter of solution	5 M: Dissolve 5 mol of solute in solvent and add solvent to make 1 L of solution.
Molality	m	Moles solute per kilogram of solvent	5 m: Dissolve 5 mol of solute in 1 kg of solvent.

### PERCENTAGE CONCENTRATION

You will find percentages of solutes stated on the labels of many commercial products, such as household cleaners, liquid pesticide solutions, and shampoos. If your sink becomes clogged, you might buy a bottle of drain opener whose label states that it is a 2.4% sodium hydroxide solution. This means that the bottle contains 2.4 g of NaOH for every 100 g of solution.

Computing percentage concentration is very much like computing percentage composition (see Chapter 6). Both involve finding the percentage of a single component of a multicomponent system. In each type of percentage calculation, the mass of the important component (in percentage concentration, the solute) is divided by the total mass of the system and multiplied by 100 to yield a percentage. In percentage concentration, the solute is the important component, and the total mass of the system is the mass of the solute plus the mass of the solvent.

# Chem File Mini Guide

**S Marginson**



### **Chem File Mini Guide:**

**Holt Chemistry File** ,1998 This reference is a must for students who need extra help reteaching or extra practice The guide moves students through the same concepts as the text but at a slower pace More descriptive detail along with visual algorithms provides a more structured approach Each chapter closes with a large bank of practice problems Book jacket

ChemFile Lab Program ,2000      Toxic Substances Control Act (TSCA) chemical substance inventory United States. Environmental Protection Agency. Office of Toxic Substances,1979      Data Base Directory ,1991      **A Handbook of Computational Chemistry** Tim Clark,1985-08-07 Although no training in theoretical chemistry is needed the book does assume an adequate knowledge of symmetry operations and point groups which are used throughout      **Directory of On-line Information Resources** ,1981      **Benn's Press Directory** ,1985      **Directories in Print** ,2011      **Monthly Catalog of United States Government Publications** ,      Subject Guide to Books in Print ,1991      **Books in Print Supplement** ,2002      *Monthly Catalogue, United States Public Documents* ,1980      Catalog Handbook of Fine Chemicals Aldrich Chemical Company,2000      The Author's Guide to Biomedical Journals Mary Ann Liebert, Inc,1996      *Microcomputers in Education* ,1984      **Science and Technology Annual Reference Review** ,1990      International Chemical Engineering ,1980      Online ,1978      Farmers' Guide ,1905      **Annual Report** Industrial Accident Prevention Association (Ont.),1981

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