

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

Xiaolong Qi



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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

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Toxic Substances Control Act (TSCA) chemical substance inventory United States. Environmental Protection Agency. Office of Toxic Substances,1979 **Resources in Education** ,2000-04 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 Army Officer's Guide: 52nd Edition Col. Robert J. Dalessandro USA (Ret.),2013-09-01 Practical advice on Army leadership and command Fully updated with the latest information for officers of all ranks branches and components Covers uniforms and insignia duties and responsibilities privileges and restrictions courtesy and customs posts and organizations regulations and references Includes full color reference of medals and badges **Indexes** United States. Environmental Protection Agency,1983 *Army Officer's Guide* Robert J. Dalessandro,David H. Huntoon,2013-09-01 Practical advice on Army leadership and command Fully updated with the latest information for officers of all ranks branches and components Uniforms and insignia duties and responsibilities privileges and restrictions courtesy and customs posts and organizations regulations and references Color images of medals and badges *Data Base Directory* ,1991 **Directory of On-line Information Resources** ,1981 Benn's Press Directory ,1985 Chemical Engineering Dilip K. Das,Rajaram K. Prabhudesai,2004 This is a review book for people

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