

Module 8
SOLUTIONS - Acid & bases
Aktiv Chemistry and Textbook

Complete study materials for module 8. Then complete the assignment below. The left-hand column provides the objectives on which you will be tested on the exam. The last column lists the Aktiv Chemistry problems related to those objectives. You will find the Aktiv Chemistry problems at: <https://aktiv.com/chemistry/>. If you are struggling to do the Aktiv Chemistry practice problems, read the sections recommended in your textbook in the middle column. You will find the textbook in the content tab in your D2L site.

Objectives Be able to:	Supporting sections in textbook	Aktiv Chemistry (Old name: Chem 101) practice problems.
Predict a covalent molecule's solubility in water by analyzing the relevant intermolecular forces.		
Interpret composition of solutions based on molarity or mass/volume percent concentrations and determine how to prepare those solutions.	9.2 & 9.3	Module 8 – Concentration Calculations (10 problems)
Interpret composition of a solution that has been diluted and determine how to prepare solutions by dilution.	9.4	Module 8 – Dilutions (5 problems)
Interpret equations that illustrate the behavior of Bronsted-Lowry acids and bases, including identification of acids, bases, and conjugate pairs.	9.7	Module 8 – Acids/Bases (10 problems)
Calculate pH given $[H_3O^+]$ and vice versa and relate pH to acidity of a solution.	9.7	Module 8 – pH (5 problems)
Explain what buffers do and how they do it.		