

CHAPTER_13 : WORKSHEET

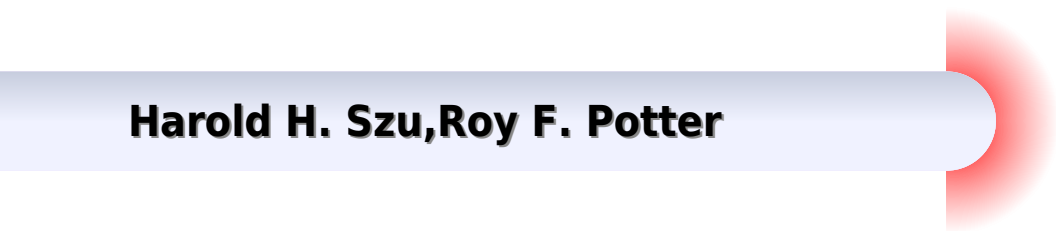
(Part 1) Solubility, energetics of solution formation, concentration units, Henry's law

Answer the following questions:

- Predict whether iodine (I_2) is more soluble in liquid ammonia (NH_3) or in carbon disulfide (CS_2).
 - Which of the following should you expect to be more soluble in benzene than in water?
 C_6H_6 , HCl , I_2 , CS_2 ?
 - Which of the following solutions exhibits hydrogen bonding between the solute and solvent? (Select all that apply.)
 - $H_2(g)$ in $H_2O(l)$
 - $CH_3OH(l)$ in $H_2O(l)$
 - $CO_2(g)$ in $H_2O(l)$
 - $NH_3(g)$ in $H_2O(l)$
 - $NaCl(s)$ in $H_2O(l)$
- Which molecule would you expect to be more soluble in ethanol (CH_3CH_2OH), CCl_4 or CH_2Cl_2 ? Explain your choice.
- Between water and hexane (C_6H_{14}), pick an appropriate solvent to dissolve each of the following solutes:
 - methanol (CH_3OH),
 - lithium nitrate,
 - coconut oil,
 - acetic acid (CH_3COOH),
 - toluene (C_7H_8), and
 - dimethyl ether ($H_3C-O-CH_3$).State the kind of intermolecular forces that would occur between the solute and solvent in each case.
- The enthalpy of solution for cesium fluoride is -36.8 kJ/mol. What can you conclude about the relative magnitudes of ΔH_{solute} and $\Delta H_{\text{hydration}}$?
- Silver nitrate has a heat of hydration of -843 kJ/mol and a heat of solution of -23 kJ/mol. What is the lattice energy of silver nitrate?
- Potassium nitrate has a lattice energy of -163.8 kcal/mol and a heat of hydration of -155.5 kcal/mol. How much potassium nitrate has to dissolve in water, at room temperature, to absorb 1.00×10^2 kJ of heat? ($1 \text{ cal} = 4.184 \text{ J}$)
- How many milliliters of water ($d = 0.998 \text{ g/mL}$) are required to dissolve 25.0 g of urea and thereby produce a 1.65 m solution of urea ($CO(NH_2)_2$)?
- Calculate a) the molality of CH_3OH (methanol) and b) mole fraction of solvent

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Harold H. Szu, Roy F. Potter



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web mitosis meiosis webquest key mitosis and meiosis doc preview 3 science science 101 ryan collins mitosis and meiosis webquest objective in this activity you will use the following web pages to examine the processes of mitosis and meiosis both of these processes are important in homeostasis as well as human reproduction

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web less than 20 mitosis questions answered correctly and or less than 7 correct images included 0 0 pts 5 pts identify the stages of meiosis by picture and by description of major milestones describe why meiosis involves two rounds of nuclear division more than 13 meiosis questions answered correctly 5 0 pts 12 13 meiosis questions

make like a cell and split comparing mitosis and meiosis - Mar 08 2023

web sep 8 2021 meiosis occurs only in the production of sperm and egg cells for sexual reproduction the phases of cell division before either mitosis or meiosis occurs cells go through a preparatory process called interphase where they grow and make a copy of their genetic information mitosis has six phases apart from interphase