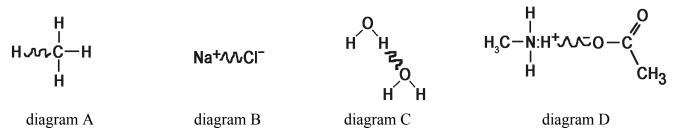
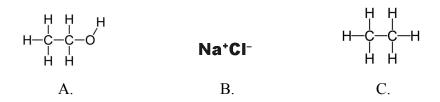
class assignment #2

Turn in the answers to the questions either by e-mail or in word processed form (handwritten will not be graded) no later than 1:30 p.m. on Friday, 11 October. For e-mail, the subject is 101#2 Your Name. 11 points

1. (4 pts) For each of these four diagrams, does the squiggly line () represent a covalent, an ionic or a hydrogen bond?



2. (5 pts) Consider the three molecules below as you answer these questions.



- a. Which is the most polar, and why?
- b. Which is the least polar, and why?
- c. Rank the three according to their ability to dissolve into water:

least soluble in water is molecule _____

somewhat soluble in water is molecule _____

most soluble in water is molecule _____

3. (2 pts) Most rocks thrown into water will quickly sink. However, if you were to take these same rocks and incorporate them into the cement of a cement-hulled ship, the ship, if designed properly, will float. Explain why this is so.