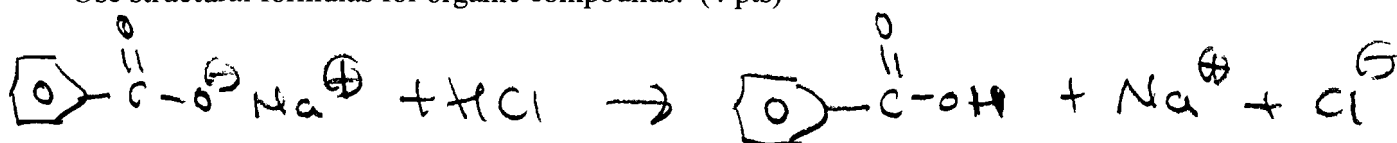


1. Name two reactants you will use today! (2 pts)

Pyridinium perbromide,
trans-stilbene

2. Write a balanced equation for the reaction of sodium benzoate with hydrochloric acid! Use structural formulas for organic compounds. (4 pts)



3. Indicate any correct statements: (a) "Benzoic acid is less soluble in water than sodium benzoate" (b) "The solubility of benzoic acid in water decreases with decreasing temperature" c) "In any extraction, the organic phase is always the top phase in the separatory funnel" d) "The density of a fluid is expressed in grams/liter" (e) "Liquid/liquid extractions require two immiscible solvents" (5 pts)

4. If the density of MTBE is 0.74, how many grams would 100 mL of this solvent weigh? (3 pts)

74 g

5. State a full, valid name for MTBE (1 pt)

tert-butylmethylether