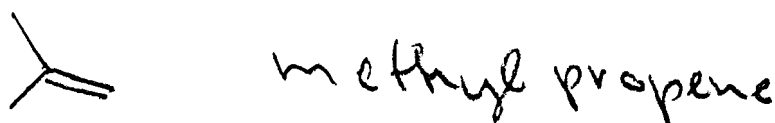


1. Name the product you will prepare today, and show a structural formula for it! (4 pts)

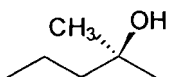


2. When 2-methyl-2-propanol was heated with phosphoric acid, an alkene was obtained. Propose a valid structural formula and a valid name for this alkene! (4 pts)

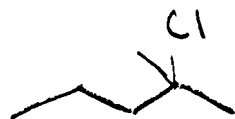


3. Circle all correct statements. They refer to the preparation of 2-chloro-2-methylpropane: A "I could have prepared the same product by using sulfuric acid instead of hydrochloric in last week's experiment" (B) "I could have prepared 2-chloro-2-methylpropane by using hydrogen chloride gas rather than aqueous hydrochloric acid" (C) "I could have prepared 2-chloro-2-methylpropane by addition of HCl to methylpropene" (3 pts).

4. Consider the alcohol below. It too, can be converted to the corresponding chloroalkane by shaking with hydrochloric acid.



a. Show a structural formula for the resulting chloroalkane 2 pts



b. Does the resulting chloroalkane have a chiral center? (2 pts)

no