

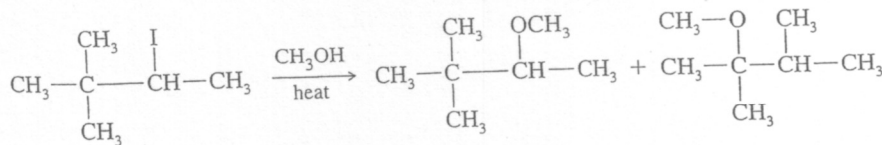
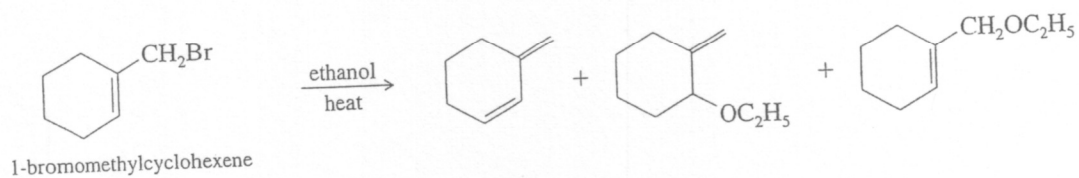
Name: _____

CHM 227 Exam 4 Fall 2016

Short Answer

1. Why does 3-bromo-1-butene react much faster than 2-bromobutane in SN1 and E1 reactions? Use structures to support your answer.

2. Draw mechanisms to account for the products of these reactions.

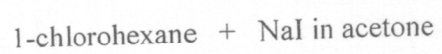


3. Devise a synthesis of these compounds using acetylene, any alkyl halide, and any needed reagents.

2,2-dibromobutane

2-iodo-4-methylpentane

4. Draw a complete mechanism for these reactions. If there is more than one likely mechanism, draw each separately. Include structures of the product(s). Label the major product, if applicable.



5. Show 2 different ways to make this compound by S_N2 reaction. Which one is better? Explain why.

