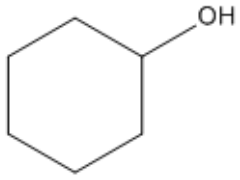
CONCEPT: OXIDATION

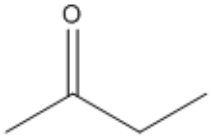
□ Oxidizing agents are used to oxidize molecules

- Most oxidizing agents add as much oxygen as possible while not breaking ANY C-C bonds.

EXAMPLE: Which of the following compounds could be oxidized?



①



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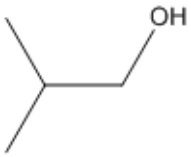

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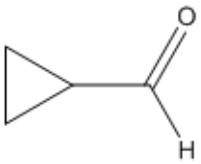


④

□ These are called ***strong*** oxidizing agents. They include $KMnO_4$ and the Cr^{6+} reagents ($H_2Cr_2O_4$, CrO_3, $K_2Cr_2O_7$, etc.)

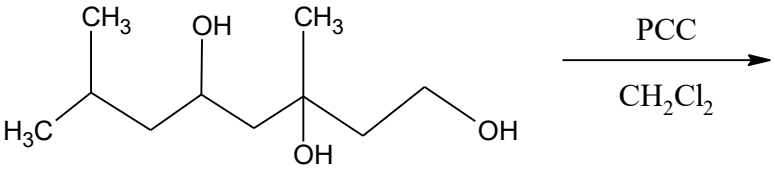
EXAMPLE: Draw the products of the previous molecules with a strong oxidizing agent

① ② ③ ④

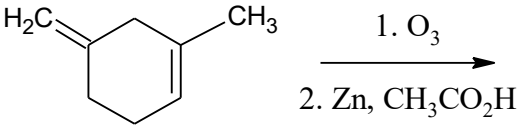
□ PCC is a ***weak*** oxidizing agent. It reacts similar but can only add ____ equivalent of oxygen to 1º alcohols.

① ② ③ ④

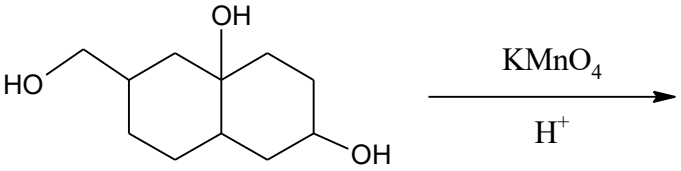
PRACTICE: Provide the major product for the following oxidation reaction.



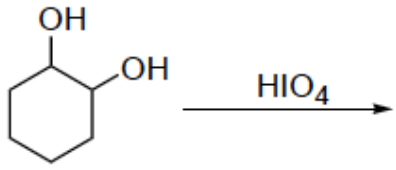
PRACTICE: Provide the major product for the following oxidation reaction.



PRACTICE: Provide the major product for the following oxidation reaction.



PRACTICE: Provide the major product for the following oxidation reaction.



PRACTICE: Determine the major product for the following reaction.