

ORGANIC CHEMISTRY 2 LECTURE GUIDE 2019

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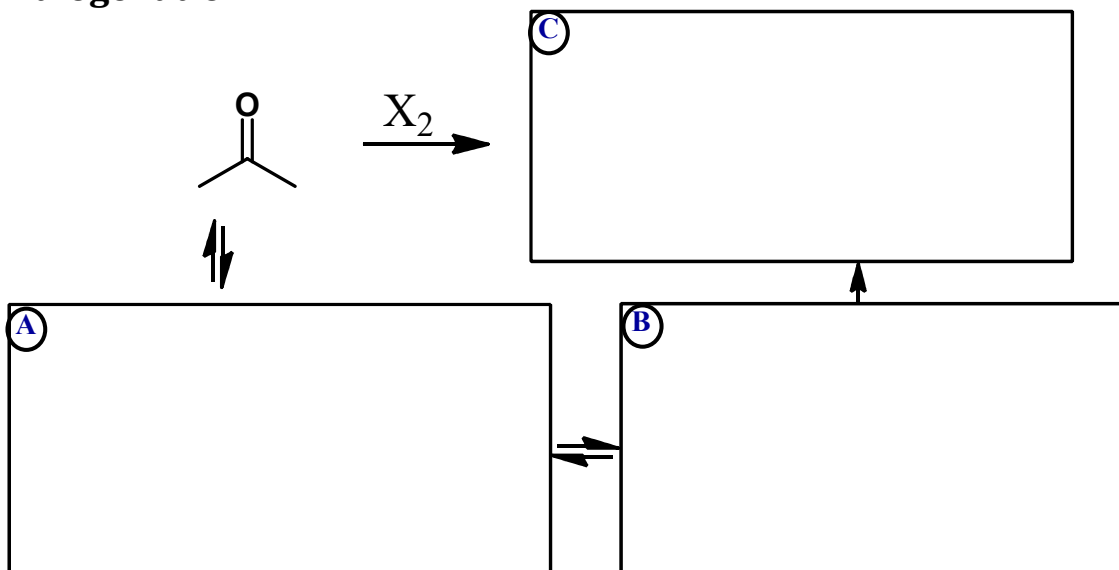
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Lesson VI.16. Alpha-Halogenation and Haloform Reactions *α -Halogenation*

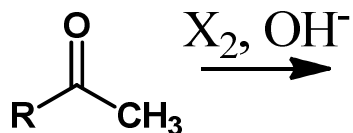
A deprotonated carbonyl can be used as a reagent for reactions other than Aldol condensation as well. One useful reaction is α -halogenation:



Notes

Lesson VI.16. Alpha-Halogenation and Haloform Reactions*Haloform Reaction*

When more than one enolizable proton is present, more than one halogen can be added to the alpha carbon, eventually leading to what may initially be unanticipated products:

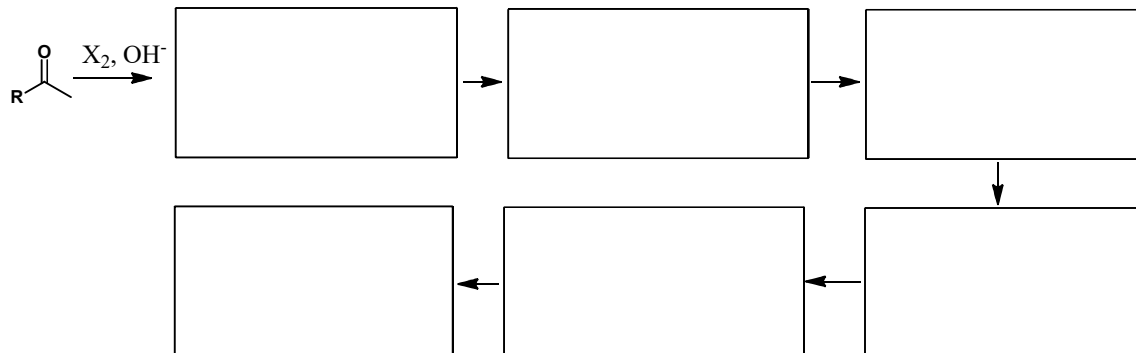


Balanced:

Notes

Lesson VI.16. Alpha-Halogenation and Haloform Reactions*Haloform Reaction*

If we examine the mechanism in light of our previous knowledge, the origin of the products should become clearer:



Notes