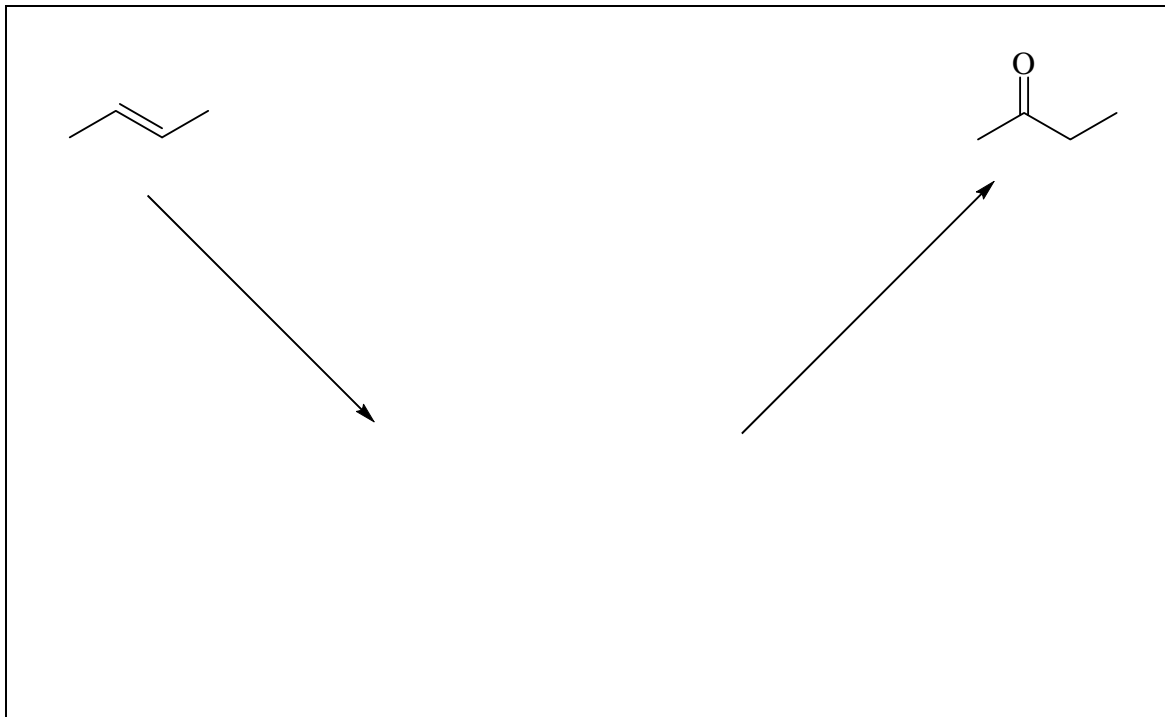


Marks
8

- Show clearly the reagents you would use to carry out the following chemical conversion. Two steps are required. Give the structure of the intermediate compound.



How can IR spectroscopy distinguish between the starting material, the intermediate and the product?

Blank space for the answer to the IR spectroscopy question.

How can ^{13}C NMR spectroscopy distinguish between the starting material and the product?

Blank space for the answer to the ^{13}C NMR spectroscopy question.