

## Question #79177, Chemistry / Organic Chemistry

Alkyl halides are converted into alkenes by \_\_\_\_\_, by treating with a strong base.

**Solution:**

Alkyl halides are converted into alkenes by dehydrohalogenation: elimination of the elements of hydrogen halide. Dehydrohalogenation involves removal of the halogen atom together with a hydrogen atom from a carbon adjacent to the one bearing the halogen. It uses the E2 elimination mechanism. The haloalkane must have a hydrogen and halide 180° from each other on neighboring carbons. If there is no hydrogen 180° from the halogen on a neighboring carbon, the reaction will not take place. It is not surprising that the reagent required for the elimination of what amounts to a molecule of acid is a strong base for example: alcoholic KOH.

**Answer:** dehydrohalogenation

**Source:** [https://en.wikibooks.org/wiki/Organic\\_Chemistry/Alkenes](https://en.wikibooks.org/wiki/Organic_Chemistry/Alkenes)