

## 2.1: Alkanes and Alkenes Prelab

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### Reactions of Alkanes and Alkenes Prelab (5 points)

1. What are the products of combustion of a hydrocarbon?
2. Write the balanced combustion reaction for 1-butene.
3. What is the color change that you are looking for in the Bromine Test to determine a substance is an alkane? An alkene?
4. What is the color change that you are looking for in the  $\text{KMnO}_4$  Test to determine a substance is an alkane? An alkene?
5. Why is the reaction of ethene with bromine called an addition reaction?

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