

## 39.6: General Questions

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1. Describe or sketch the different structures possible for  $C_3H_4$ . Do you expect these substances to have the same properties or different properties?
2. The structure of a water molecule causes it to be polar. If the water molecule had the structure illustrated below, would it still be polar? Explain.

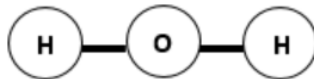


Figure 39.6.1: Water molecule structure illustration

3. The flat structure of the benzene ( $C_6H_6$ ) molecule is partly responsible for this molecule being a cancer causing substance. This molecule can slice into the DNA double helix and disrupt the cell's ability to regulate itself. Name a substance that you think may contain the benzene molecule.

### Contributors and Attributions

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