



# ORGOREVIEW

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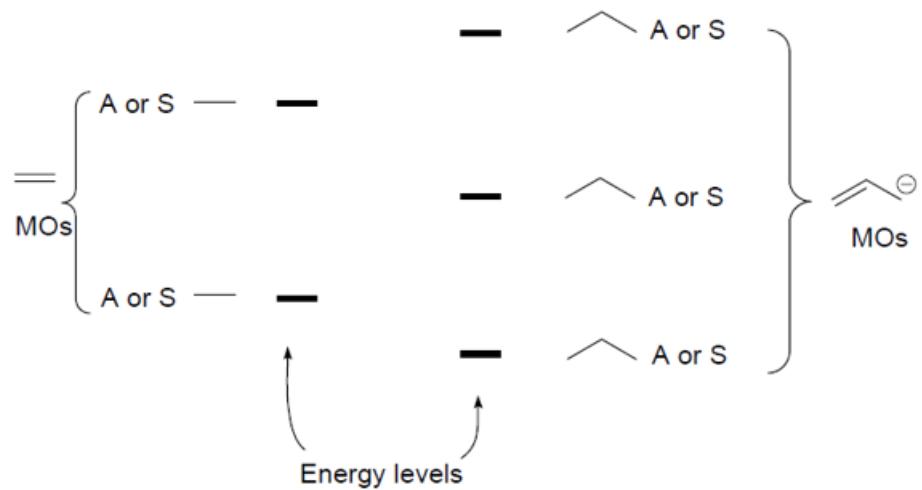
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The Diels Alder reaction is an example of a cycloaddition reaction. Another possible cycloaddition reaction is the reaction of a diene with a allyl cation to give a seven membered ring. Complete the MO energy level interaction diagram shown below and determine if the reaction is allowed or forbidden.



Complete the following steps:

- Draw the MOs, butadiene on the left, the allyl cation on the right.
- Indicate which levels are occupied with electrons.
- Label each MO as symmetric or antisymmetric by circling (S) or (A) for each MO.
- Check the appropriate blank to indicate if the reaction is allowed or forbidden.



Check one:    Allowed \_\_\_\_\_    Forbidden \_\_\_\_\_

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