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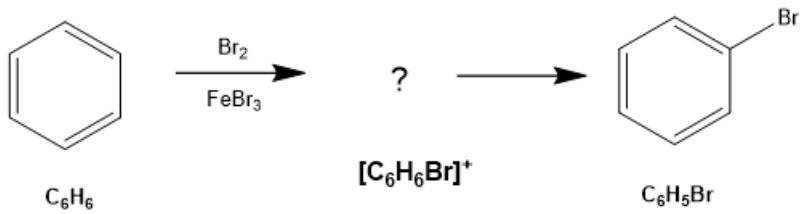
Electrophilic aromatic bromination of benzene gives bromobenzene. The major intermediate formed during the course of the reaction has molecular formula $[C_6H_6Br]^+$.



The highest occupied molecular orbital (HOMO) of this intermediate is most similar to:

- **(A)** the HOMO of an allyl cation
- **(B)** the HOMO of a pentadienyl cation
- **(C)** the HOMO of a pentadienyl anion
- **(D)** the LUMO of an allyl cation
- **(E)** the LUMO of a pentadienyl cation
- **(F)** the LUMO of a pentadienyl anion

VIDEO SOLUTION

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