



# ORGOREVIEW

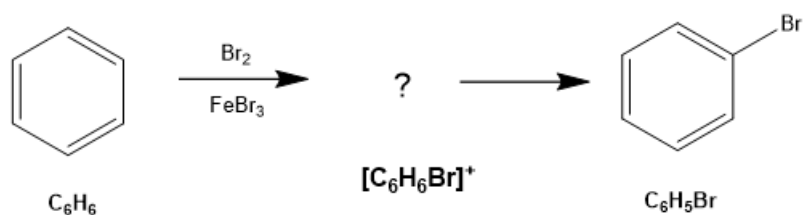
## Question Vault

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Electrophilic aromatic bromination of benzene gives bromobenzene. The major intermediate formed during the course of the reaction has molecular formula  $[\text{C}_6\text{H}_6\text{Br}]^+$ .



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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