



# ORGOREVIEW

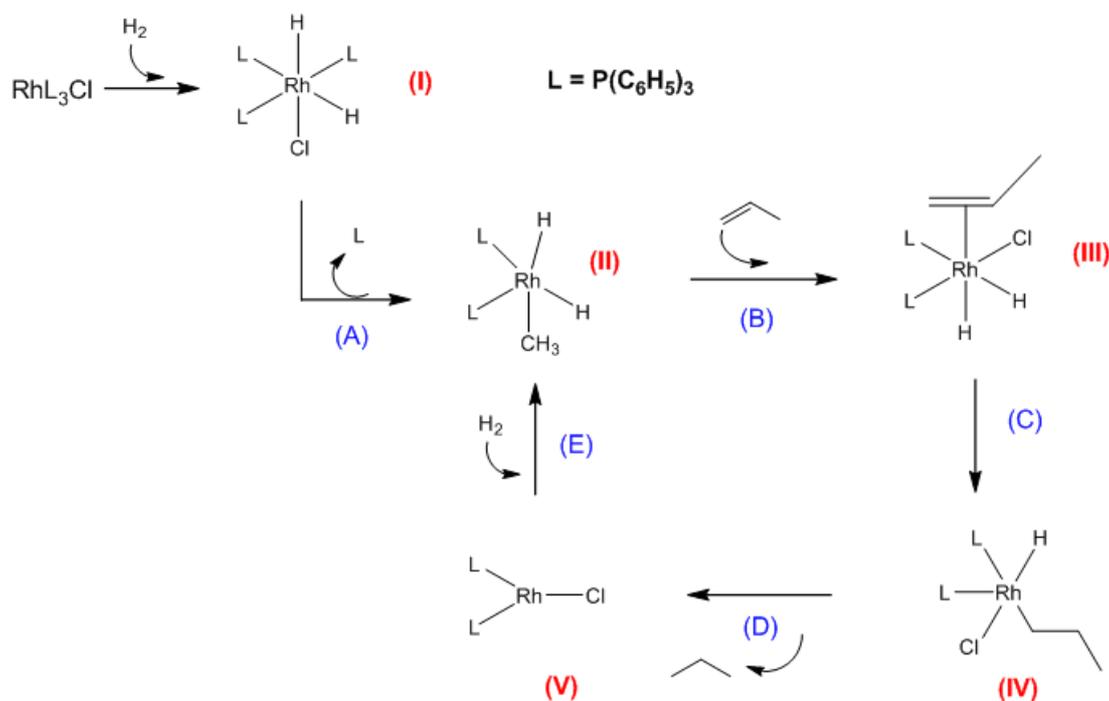
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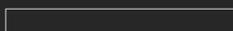
  

The following scheme illustrates a catalytic cycle for the hydrogenation of propene using a rhodium catalyst,  $\text{Rh}[\text{P}(\text{C}_6\text{H}_5)_3]_3\text{Cl}$ . The next three questions refer to this scheme.



- Which of the labeled steps in the above catalytic cycle is an oxidative addition reaction?
- Which of the labeled steps in the above catalytic cycle is a reductive elimination reaction?
- Which of the rhodium complexes is a 14 electron complex?  
(A) (I)      (B) (II)      (C) (III)  
(D) (IV)     (E) (V)

(A) (I)     (B) (II)     (C) (III)     (D) (IV)     (E) (V)



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