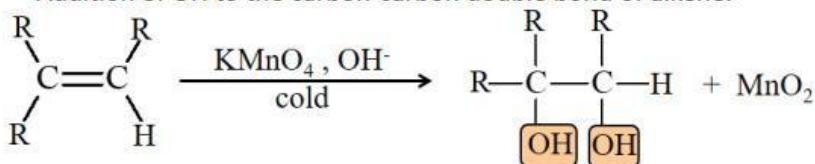


# REACTIONS OF ALKENES

## REACTION WITH DILUTED ALKALINE $\text{KMnO}_4$

Addition of OH to the carbon-carbon double bond of alkene.



R = Alkyl group

Reagent & Conditions :  $\text{KMnO}_4$ ,  $\text{H}_3\text{O}^+$ , cold

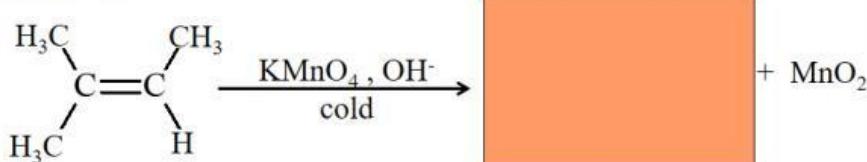
Type of reactions :

Name of test (using  $\text{Br}_2$ ) :

Observation :

Rule : OH is added to both Carbon-carbon double bond without changing its carbon chain.

EXAMPLE :



CHOOSE THE CORRECT ANSWER :

NUCLEOPHILIC ADDITION

ELECTROPHILIC ADDITION

ELIMINATION

BRADY'S TEST

BAEYER'S TEST

Brown precipitate is formed

Reddish brown colour decolourised

Yellowish brown colour decolourised

