
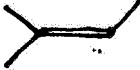



















CHAPTER 8 - REACTIONS OF ALKENES

1.  + HBr \longrightarrow
2.  + HBr $\xrightarrow{\text{peroxides}}$
3.  + Br₂ \longrightarrow
4.  + Br₂ $\xrightarrow{h\nu}$
5.  + Br₂ $\xrightarrow{H_2O}$
6.  + NBS $\xrightarrow{h\nu}$
7.  + H₂O $\xrightarrow{H^+}$
8.  + Hg(OAc)₂ $\xrightarrow{H_2O}$ $\xrightarrow{NaBH_4}$
9.  + Hg(OAc)₂ $\xrightarrow{CH_3OH}$ $\xrightarrow{NaBH_4}$
10.  + BH₃·THF \longrightarrow $\xrightarrow[-OH]{H_2O_2}$
11.  + $\begin{matrix} \oplus \\ | \\ CH_3-CH-CH_3 \end{matrix}$ \longrightarrow
12.  + BF₃ \longrightarrow
13.  + H₂ \xrightarrow{Pd}
14.  + CH₃Br $\xrightarrow[H_2O]{NaOH}$
15.  + peroxy-acid \longrightarrow $\xrightarrow{H_3O^+}$
16.  + $\begin{matrix} KMnO_4 \\ \text{(cold, dilute)} \end{matrix}$ $\xrightarrow{OH^-, H_2O}$
17.  + OsO₄ $\xrightarrow{H_2O_2}$
18.  + O₃ \longrightarrow $\xrightarrow{(CH_3)_2S}$
19.  + KMnO₄ $\xrightarrow{\Delta}$