

Complete the word equations for benzene

1. Benzene + $\text{H}_2/\text{Ni} \rightarrow$
2. Benzene + X_2/AlX_3 or $\text{FeX}_3 \rightarrow$
3. Benzene + RX/AlX_3 or $\text{FeX}_3 \rightarrow$
4. Benzene + $\text{RCOCl}/\text{AlX}_3$ or $\text{FeX}_3 \rightarrow$
5. Benzene + $\text{SO}_3/\text{conc H}_2\text{SO}_4 \rightarrow$
6. Benzene + $\text{conc HNO}_3/\text{conc H}_2\text{SO}_4 \rightarrow$ + $\text{Sn/HCl} \rightarrow$
7. Methylbenzene + $\text{KMnO}_4/\text{H}^+/\text{heat} \rightarrow$
8. Methylbenzene + $\text{Cl}_2/\text{uv} \rightarrow$
9. Methylbenzene + $\text{conc HNO}_3/\text{H}_2\text{SO}_4 \rightarrow$