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(M.Sc Chemistry)

Halo alkanes & Haloarenes all imp name reactions

1. Wurtz Reaction $\rightarrow R-X + 2Na + X-R \rightarrow R-R$
2. Wurtz–Fittig Reaction $\rightarrow Ar-X + R-X + 2Na \rightarrow Ar-R$
3. Fittig Reaction $\rightarrow Ar-X + Ar-X + 2Na \rightarrow Ar-Ar$
4. Ullmann Reaction $\rightarrow Ar-X + Ar-X + Cu \rightarrow Ar-Ar$
5. Swarts Reaction $\rightarrow R-X + AgF \rightarrow R-F$
6. Finkelstein Reaction $\rightarrow R-X + NaI \text{ (acetone)} \rightarrow R-I + NaX$
7. Hunsdiecker Reaction $\rightarrow R-COONa + Br_2 \rightarrow R-Br + CO_2$
8. Sandmeyer Reaction $\rightarrow Ar-N_2^+Cl^- + CuX \rightarrow Ar-X$
9. Gattermann Reaction $\rightarrow Ar-N_2^+Cl^- + H-X + CuX \rightarrow Ar-X$
10. Carbylamine Reaction $\rightarrow R-NH_2 + CHCl_3 + KOH \rightarrow R-NC$
11. Haloform Reaction $\rightarrow CH_3-COR + 3X_2 + 4NaOH \rightarrow CHX_3 + RCOONa + 3NaX$
12. Reimer–Tiemann Reaction $\rightarrow C_6H_5OH + CHCl_3 + NaOH \rightarrow o-\text{HOC}_6H_4-\text{CHO}$