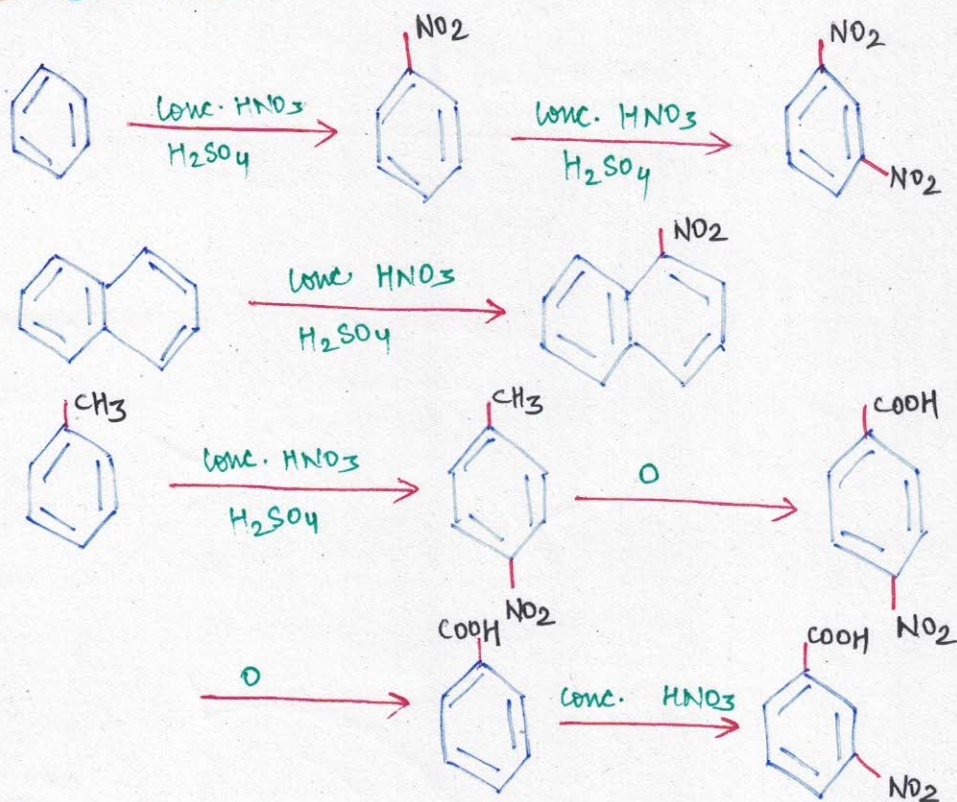


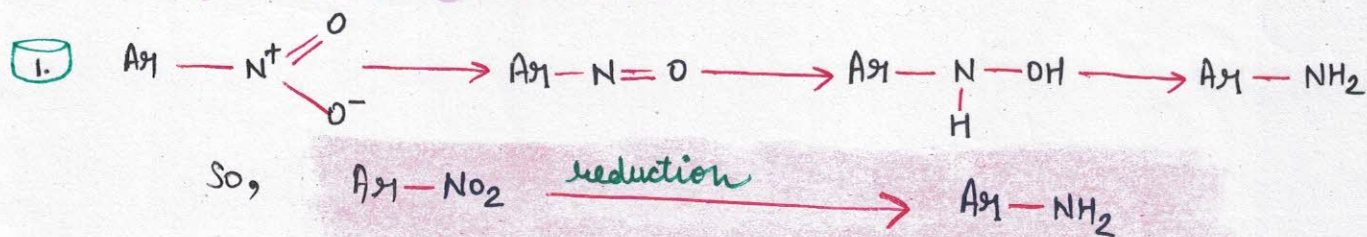
Aromatic Nitro Compounds



PREPARATION

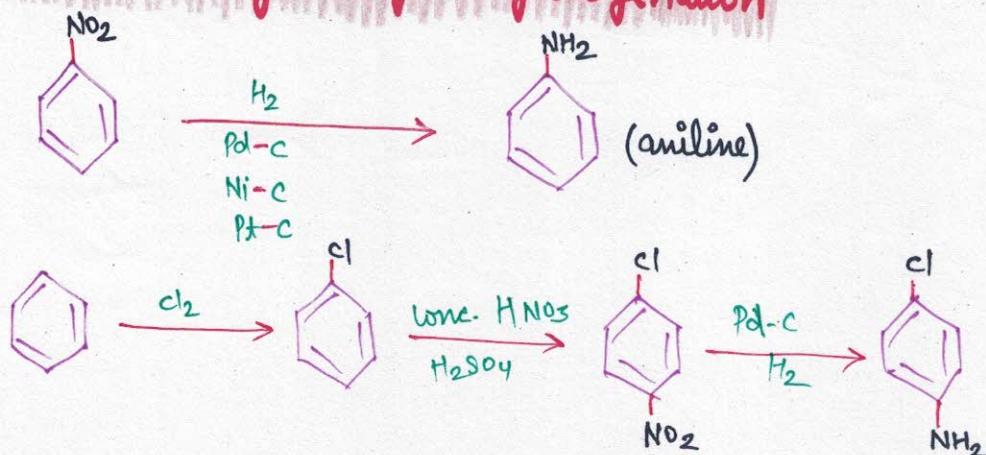


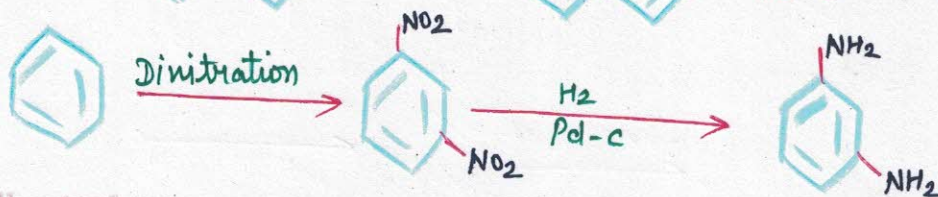
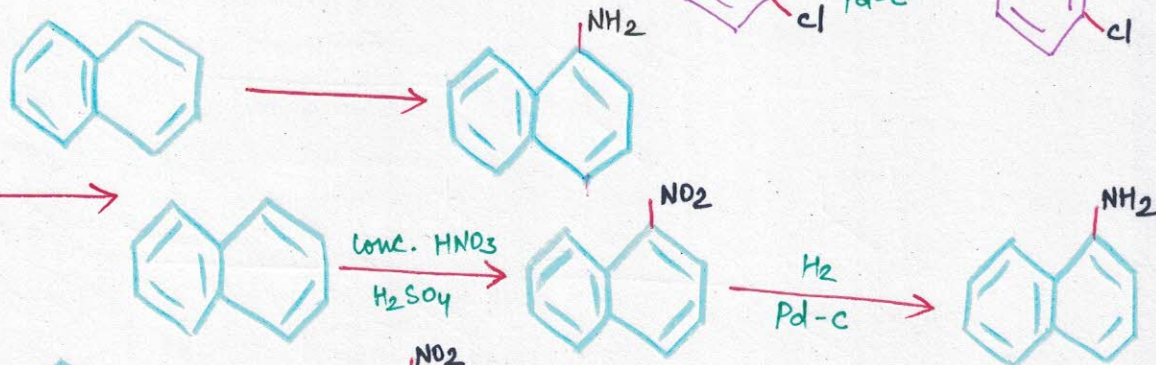
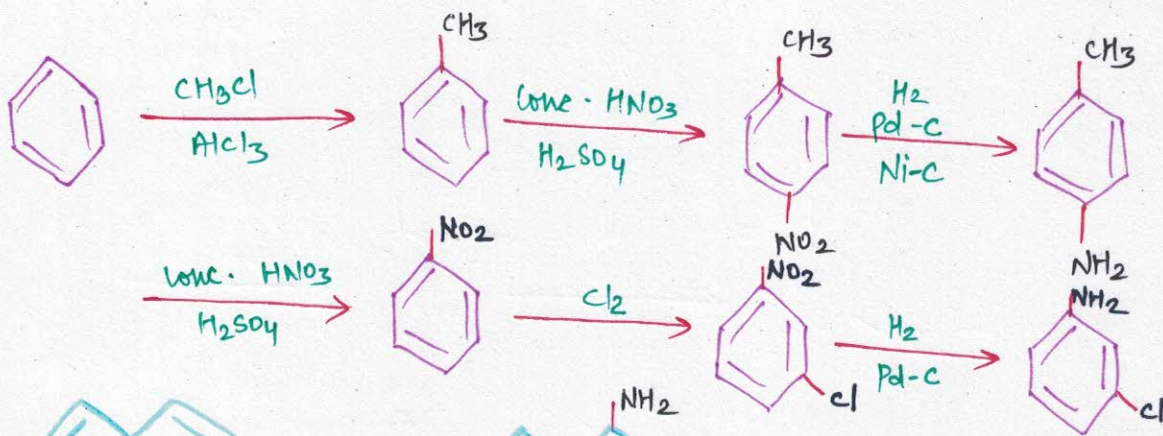
PROPERTIES



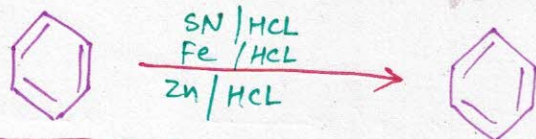
CONDITIONS FOR REDUCTION

a. Reduction by Catalytic hydrogenation

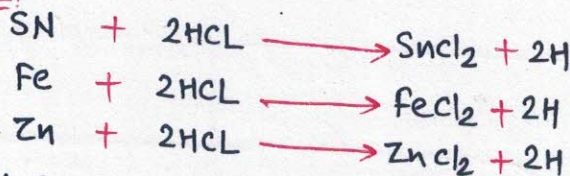




Reduction in acidic medium...



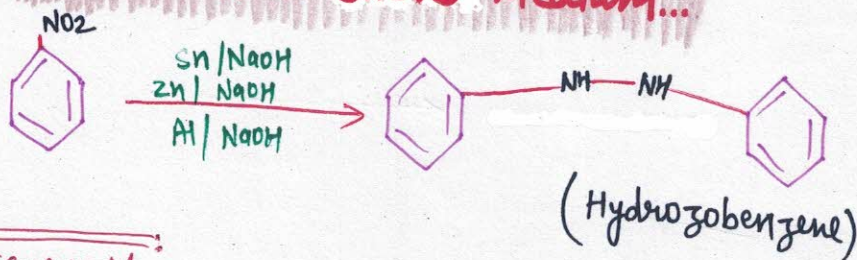
MECHANISM



Same as catalytic hydrogenation.

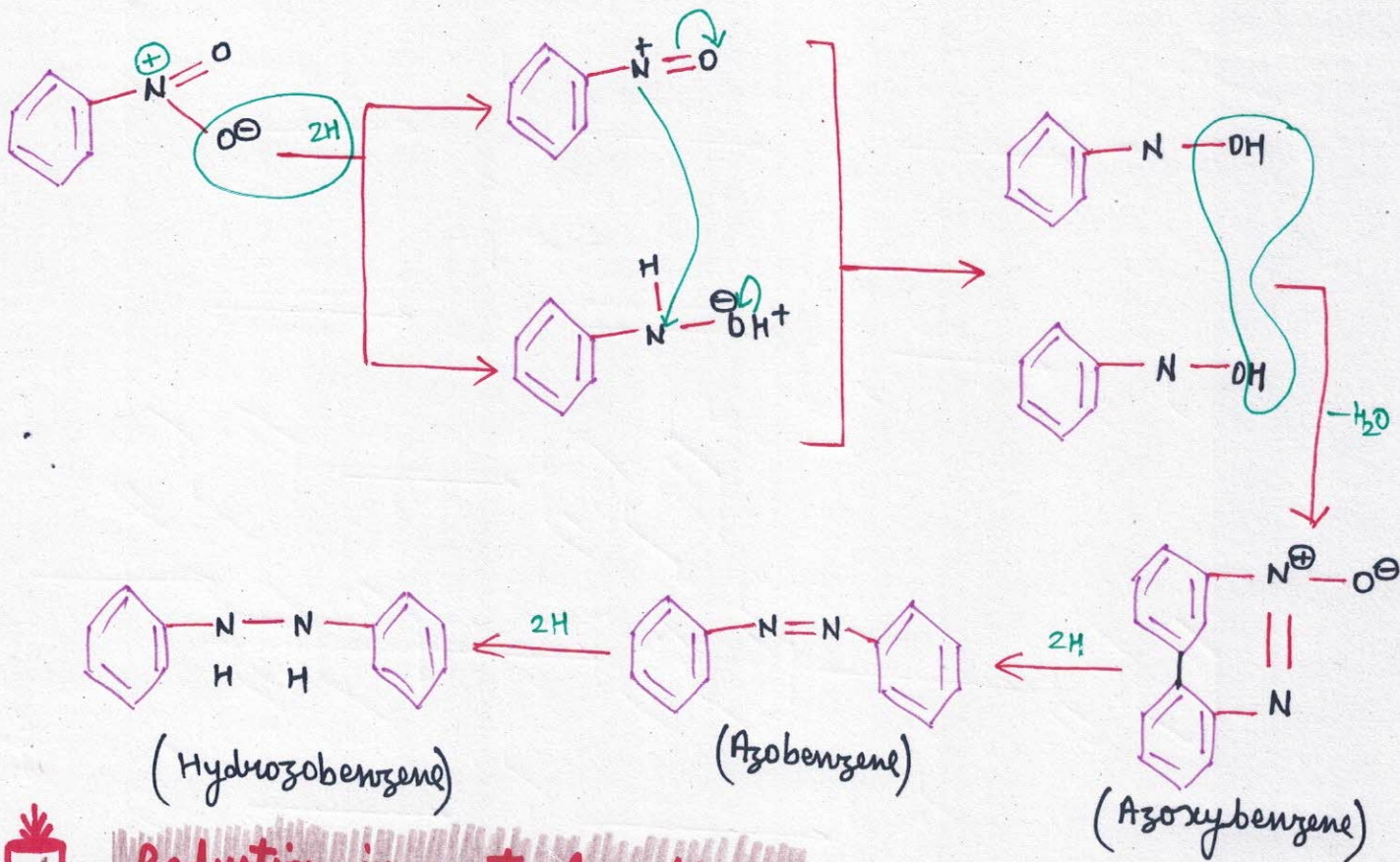
E.g. Same as that of catalytic hydrogenation.

Reduction in BASIC medium...

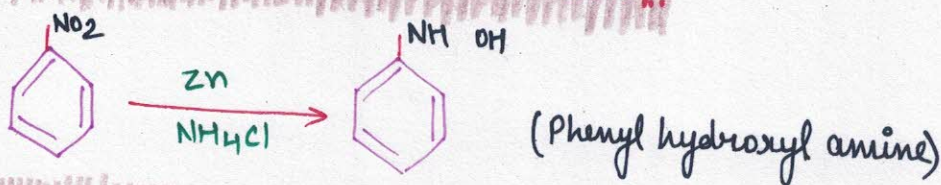


MECHANISM

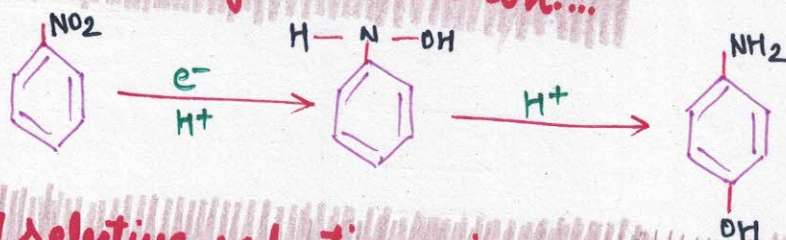




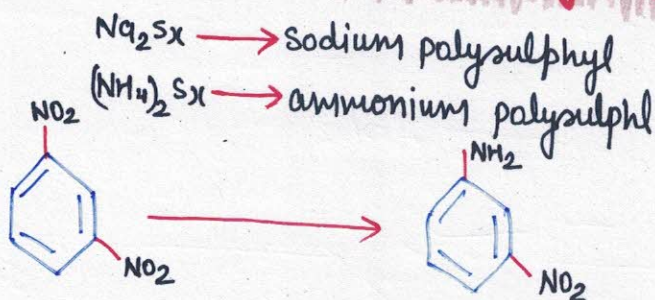
Reduction in neutral medium..



By electrolytic reduction...

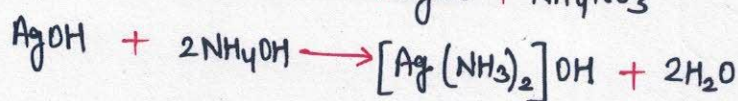
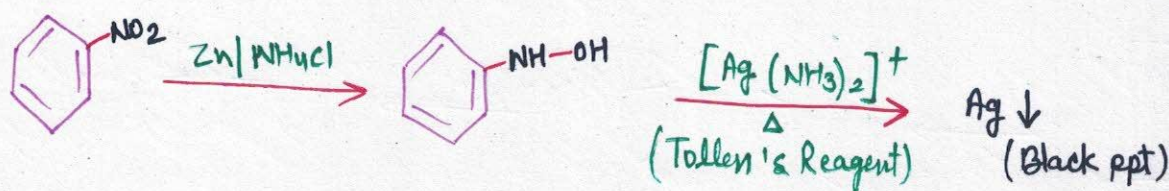


By selective reduction using $\text{Na}_2\text{S}_x / (\text{NH}_4)_2\text{S}_x$

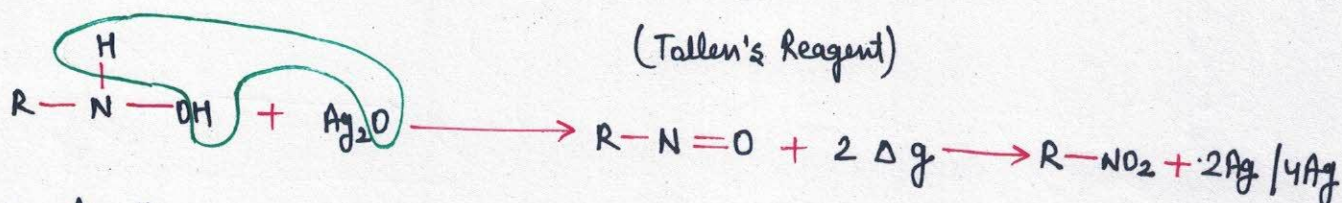


only one nitro group is reduced.

Mulliken Barker Test



(Tollen's Reagent)



1 mole nitro group requires 2 mole of Ag_2O to give 4 mole Ag .
 Ag is precipitated as a black ppt and is called **Black mirror**.