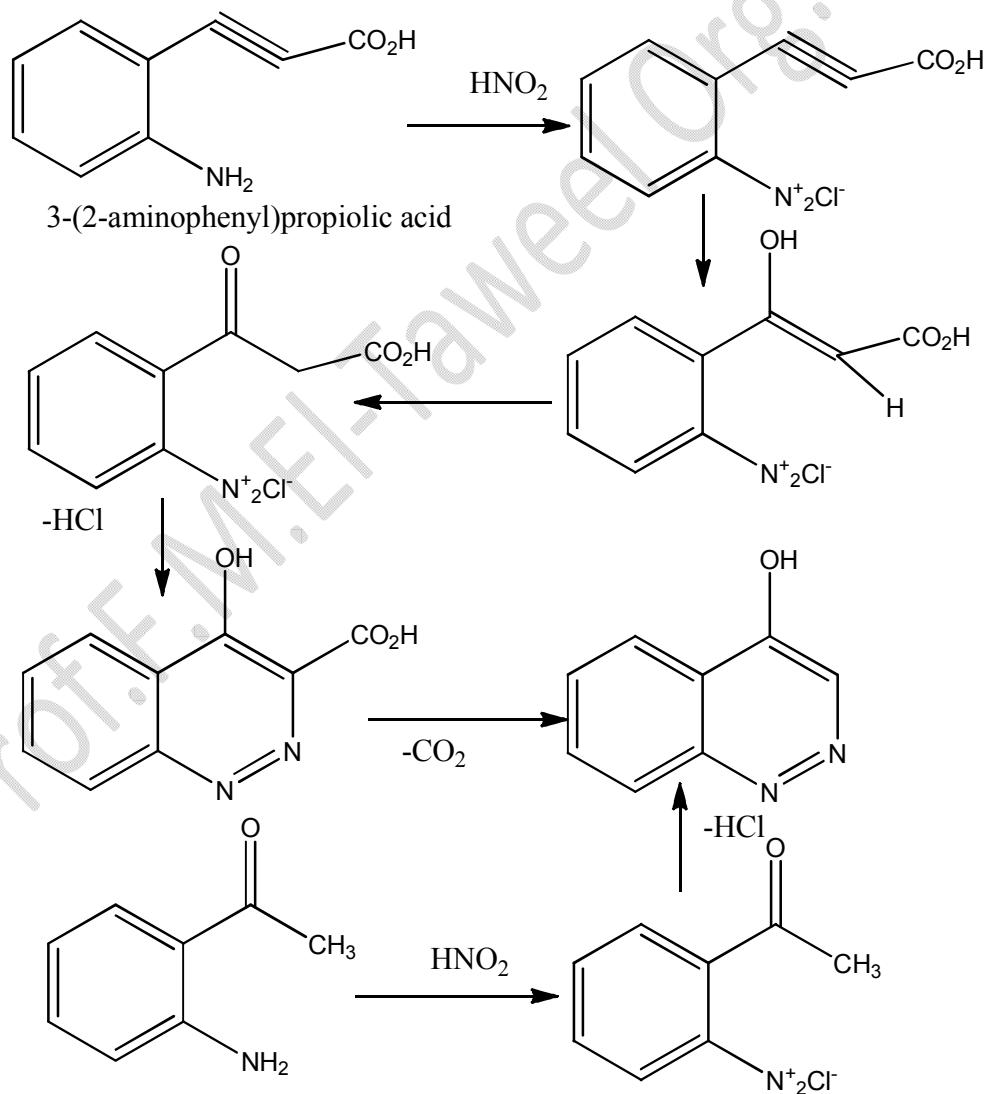


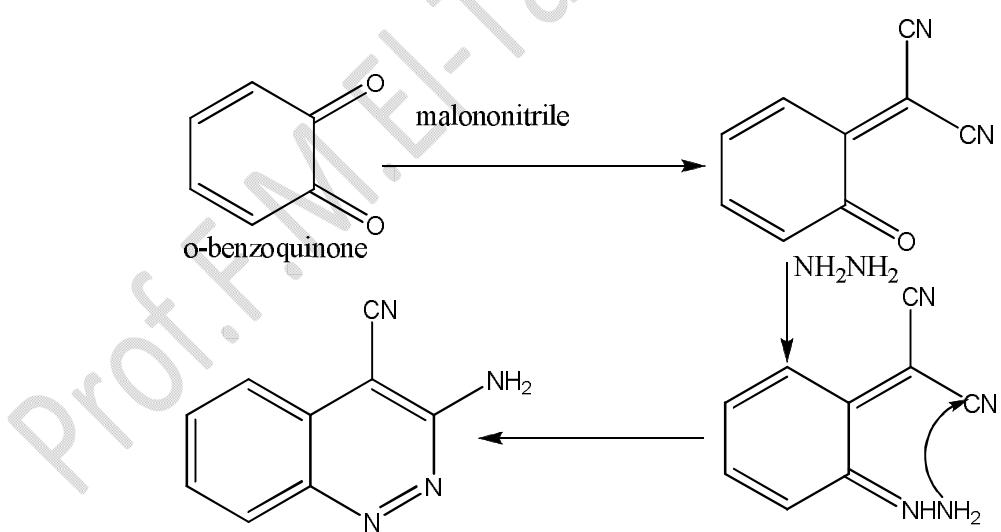
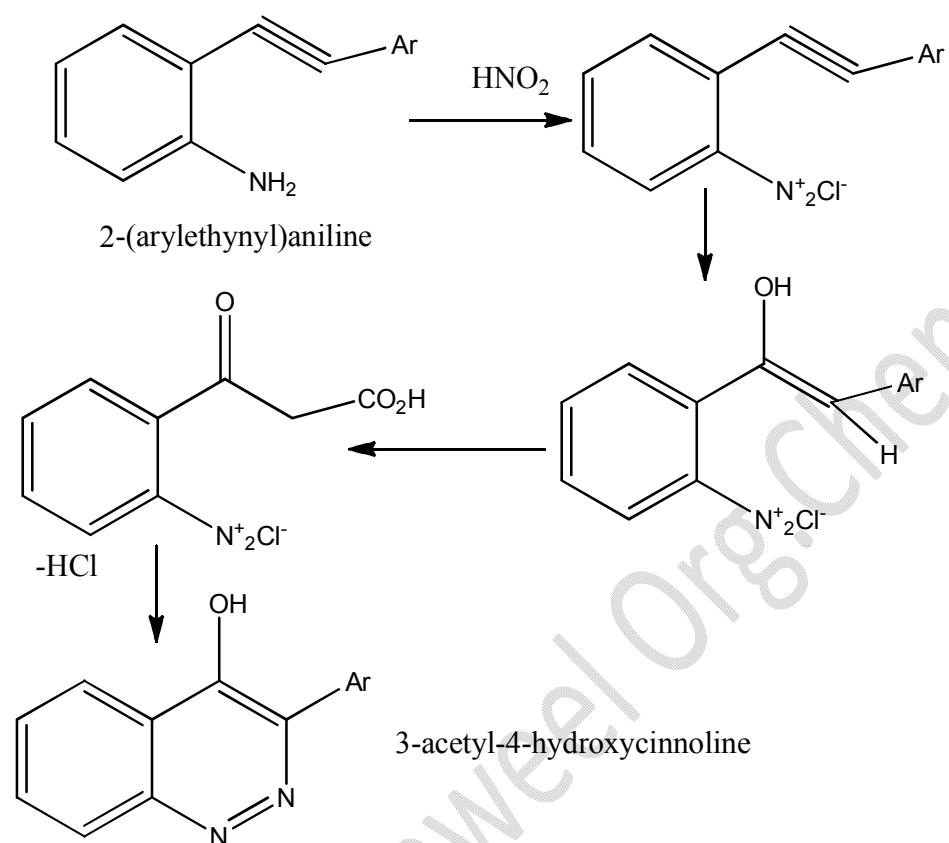
B) Diazanaphthalenes (Benzodiazines)

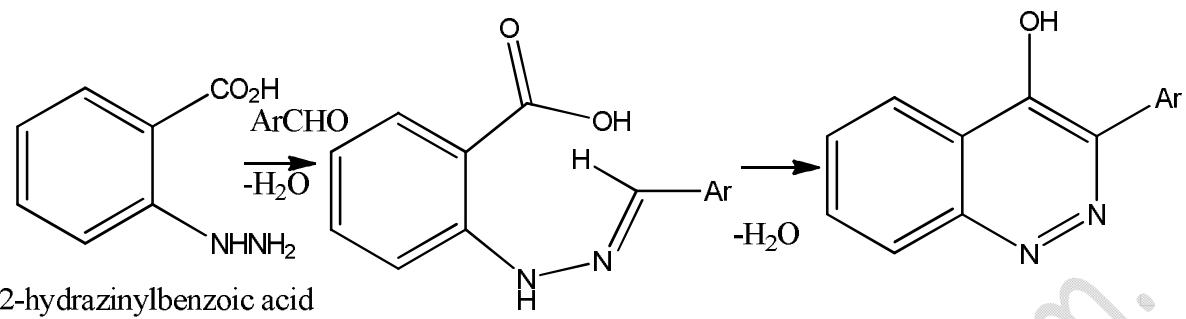
1) Cinnoline

1-Richter Cinnoline synthesis :

Formation of 4-hydroxycinnoline derivatives by diazotization of o-aminophenylpropiolic acid or o-aminoarylacetylene ,followed by hydration and cyclization .This method is applicable for preparation of substituted in the benzene ring.

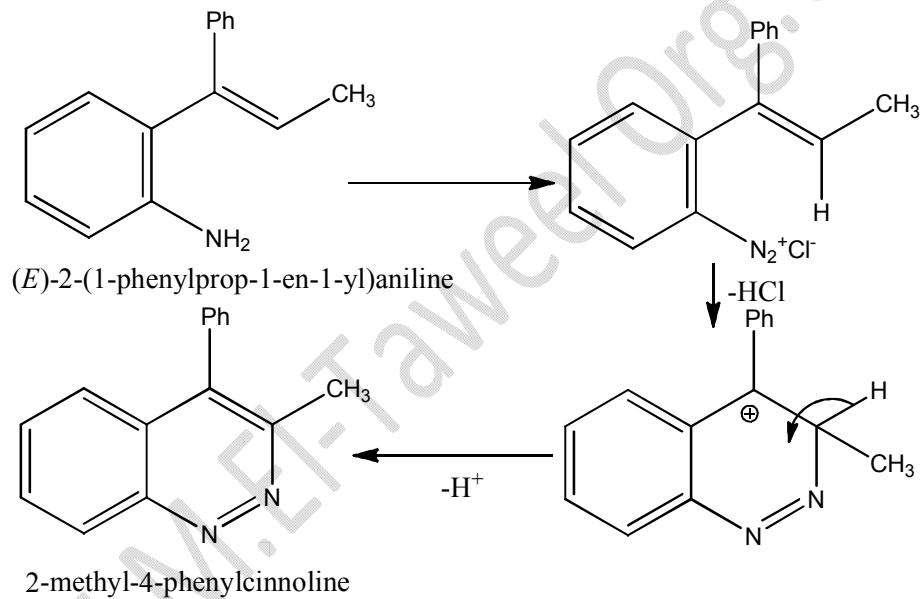




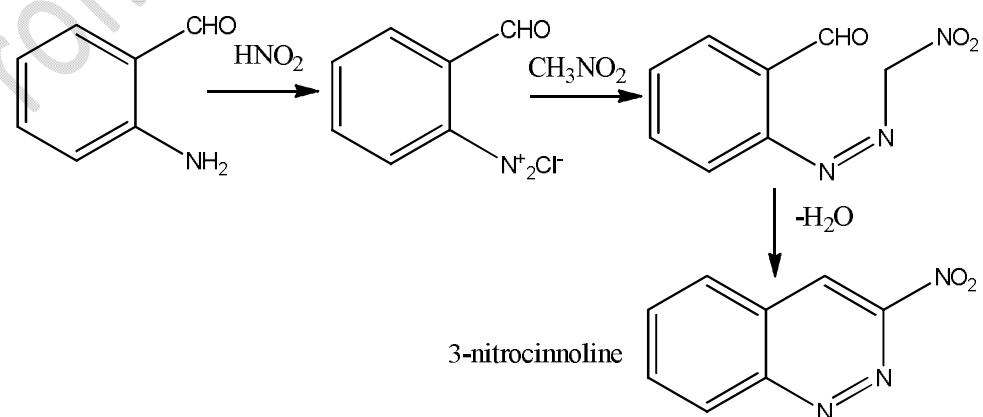


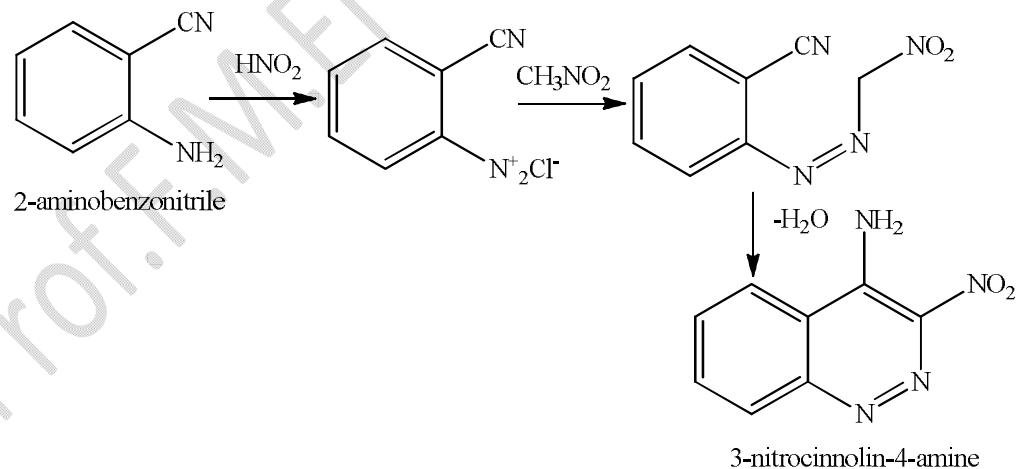
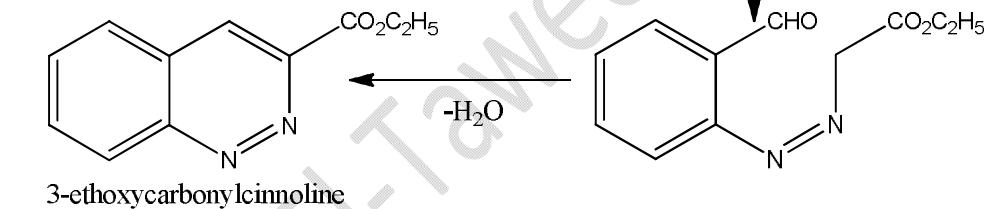
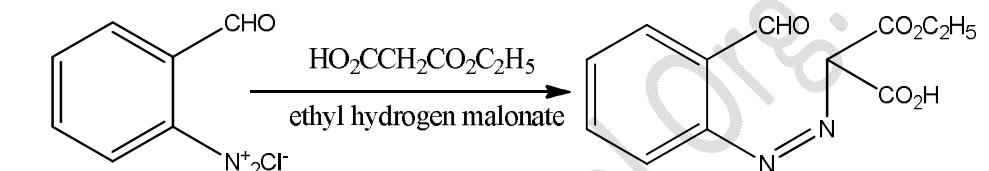
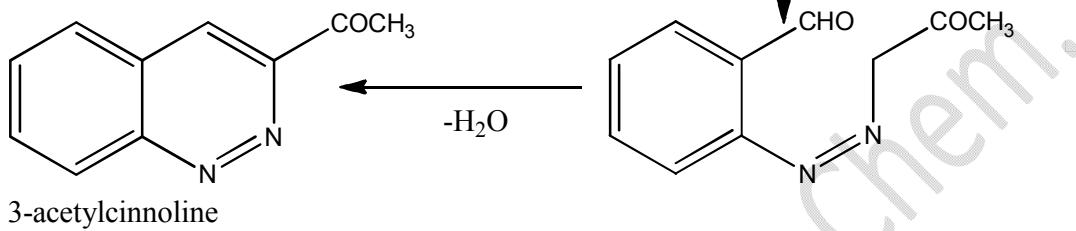
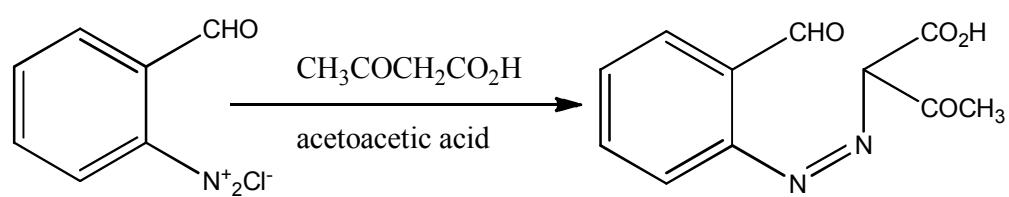
3-Widmann-Stoermer synthesis :

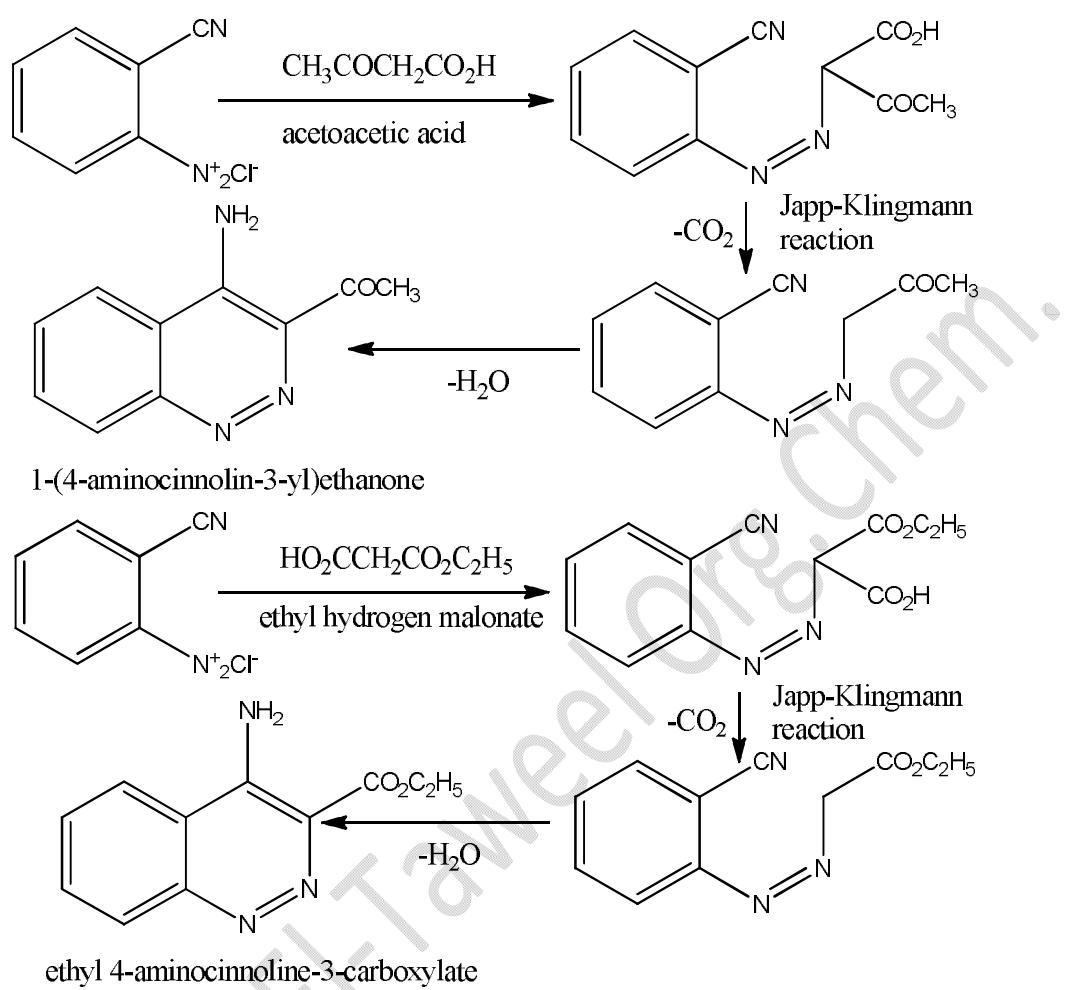
Cyclization of diazotized o-aminophenylarylethylenes at room temperature give cinnoline derivatives.



From o-aminobenzaldehyde :







From aryl hydrazones :

