

**Laboratory Report (109 chem)**  
Experiment 10: Nitro and Amino compounds


Student Names: ..... Section No: .....

Name		Structure formula
class		
Functional group		
Molecular formula		

Tube no.	Test	Observation	Conclusion
1	<p><b><u>Basicity of amine:</u></b></p> <p>aniline tested by:</p> <p>1- Phenolphthalein</p> <p>2- p-nitrophenol</p>	<p>1- colorless</p> <p>2- yellow</p>	
2	<p><b><u>Diazonium salt:</u></b></p> <p>(Aniline+ HCl 10%+5 drops of NaNO<sub>2</sub>)</p>		
3	<p><b><u>Azo dye test:</u></b></p> <p><b>Two tubes</b></p> <p>1- Diazonium salt</p> <p>2- β-Naphthole + 10%NaOH</p> <p>Add tube 1 to tube 2 in ice bath</p>	<p>Red to orange color</p>	
4	<p><b><u>Hydrolysis of Diazonium salt:</u></b></p> <p>1ml of Diazonium salt +2ml H<sub>2</sub>O</p>		