

Amines Reasoning

1. Ammonolysis method is not preferred to form amine why?
2. Order of reactivity of halides with amine, decrease from $RI > RBr > RCl$. why?
3. Reduction of nitro compounds is preferred by using iron scrap and $FeCl_2$. why?
4. Gabriel ~~phthalimide~~ phthalimide synthesis reaction is preferred to form 1° amine why?
5. Aromatic primary amines cannot be prepared by Gabriel phthalimide synthesis method. why?

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Fact; lower aliphatic amines with fishy odour.

6. Lower aliphatic amines are soluble in ~~water~~ water. Why?

7. $1^\circ, 2^\circ, 3^\circ$ amines (solubility in water).

8. Out of butan-1-ol and butan-1-amine, which is more soluble in water?

9. Amines are soluble in organic solvent like alcohol, ether, ~~and~~ benzene. Why?

10. $1^\circ, 2^\circ, 3^\circ$ amines (boiling point).

11. Amines are bases like ammonia. Why?

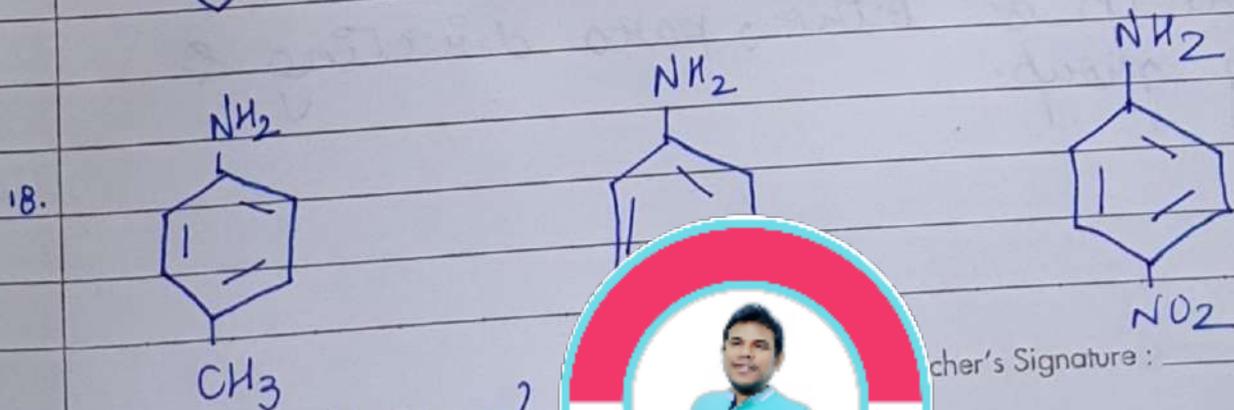
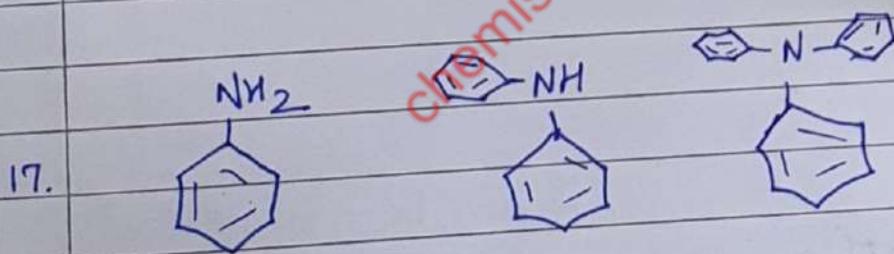
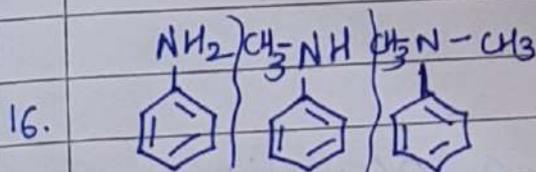


12. 1°, 2°, 3° amines (basic strength) in gaseous phase.

13. Ammonia, aliphatic amine (which is more basic).

14. Aliphatic amine, aromatic amine (basic strength).

15. Aromatic amine and ammonia.



{para-toluidine}



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19. $1^\circ, 2^\circ, 3^\circ$ amine (aq. phase) when alkyl is methyl.

20. $1^\circ, 2^\circ, 3^\circ$ amine (aq. phase) when alkyl is ethyl.

21. $C_6H_5CH_2NH_2, NH_3$ ~~primary~~

22. Why is pyridine used during acylation of amine.

23. NH_2 group is ortho, para directing & activating group.



24. NHCOCH_3 is less activating than NH_2 . Why?
25. Besides the ortho & Para derivatives, significant amount of meta derivative is also formed on nitration of aniline.
26. Aniline doesn't give friedel craft reaction.
27. Arene diazonium ion is more stable than alkyl diazonium ion.



33. Amides are less basic than Amine.

~~Aniline~~

28. Ethyl amine is soluble in water but aniline isn't.

29. methyl amine on water react with ferric chloride to precipitate hydrated ferric oxide. explain.

30. C_2H_5OH , $(CH_3)_2NH_2$, $C_2H_5NH_2$ {Boiling Point}

31. $C_6H_5NH_2$, $(C_2H_5)_2NH$, $C_2H_5NH_2$ (solubility in water).

32. Amines are less than alcohol. Why?

