



CHEMISTRY

BOOKS - JEEVITH PUBLICATIONS CHEMISTRY (KANNADA ENGLISH)

AMINES

Questions

1. Give the IUPAC names for the following amines.



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2. How nitro compounds are converted into amines?

Give examples.

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3. How nitriles are converted into primary amines?

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4. How amides are converted into amines?

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5. Explain Hoffmann bromamide degradation reaction.

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6. Explain Hoffmann bromamide degradation for the preparation of methanamine.

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7. Explain Hoffmann bromamide degradation for the preparation of aniline.

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8. Explain carbylamine reaction.



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9. How is aniline converted in phenyl isocyanide ? Write the equation.



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10. How primary aliphatic amine reacts with nitrous acid ?

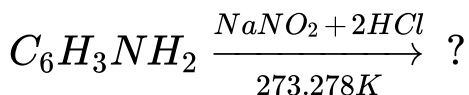


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11. How aromatic primary amine reacts with nitrous acid?

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12. Complete the following reactions



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13. What is Hinsberg's reagent?

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14. What is Hinsberg's reagent? How it is used to distinguish primary amine from a secondary amine?

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15. How aniline reacts with bromine water?

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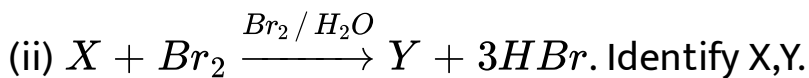
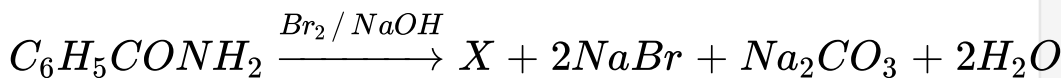
16. What is the action of bromine water on benzanamine (aniline) at room temperature?

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17. Write the IUPAC name of the product formed when aniline reacts with bromine water.

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18. (i)



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19. How aniline reacts with Conc. H_2SO_4

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20. What is diazotisation reaction? Give example.

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21. Explain Sandmeyer reaction.

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22. Explain Guttermann reaction.

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23. How benzene diazonium chloride is converted into fluorene?

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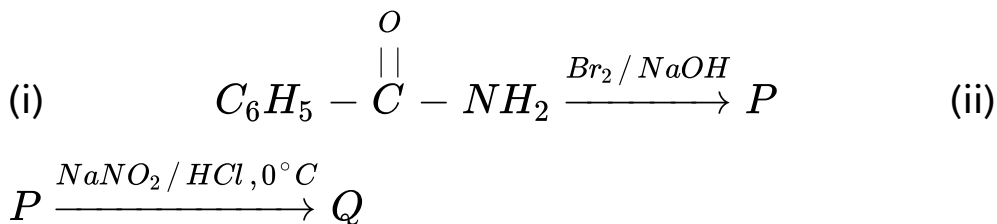
24. How benzene diazonium chloride is converted into phenol?

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25. b) What is Hinsberg's reagent? Between CH_3NH_2 and $C_6H_5NH_2$ which is more basic?

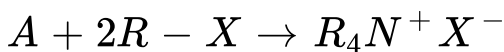
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26. What are P and Q? Name the reaction occurring in step 1.



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27. Identify the reactant 'A' in the following reaction



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28. Which is more basic among aqueous solutions of aniline and ammonia? Give one reason?

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29. Which is more basic among methylamine and aniline?

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30. Name the major product formed when nitrous acid is treated with Methylamine

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31. Name the major organic product formed in the following conversion.

(ii) Benzene diazonium chloride is treated with KI.

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32. What is acylation? Give example.

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33. Arrange the following in the decreasing order of their basic strength in aqueous solution :

CH_3NH_2 , $(CH_3)NH$, $(CH_3)_3N$ and NH_3

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34. Explain the trend in base strengths of 1° , 2° , 3° methyl amines in gaseous phase.

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35. Name the major product obtained when nitrous acid is treated with Methylamine

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36. Name the major product obtained when nitrous acid is treated with Aniline at low temperature.

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37. The pK_b values of Ammonia, methanamine and Benzenamic (aniline) are 4.75, 3.38 and 9.38 respectively. Arrange them in the increasing order of their basic strength.

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38. Why aromatic primary amines cannot be prepared by Gabriel synthesis.



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