



CHEMISTRY

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ORGANIC NITROGEN COMPOUNDS

Evaluate Yourself

1. Write all possible isomers for the compound. $C_2H_5-NO_2$



2. Write all possible isomers for the compound. $C_3H_7-NO_2$

3. Find out the product of the reaction

 $CH_{3}CH(Cl)COOH \xrightarrow{(i) NaNO_{2}} (ii) H_{2}O/\Delta$? [X]

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4. Find out the product of the reaction



5. Predict the major product that would be obtained on nitration of the compound.



6. Predict the major product that would be obtained on nitration of the compound.



7. Predict the major product that would be obtained on nitration of the compound.



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8. Draw the structure of the compound

Neopentylamine

9. Draw the structure of the compound

Tert-butylamine



12. Draw the structure of the compound

N-ethyl - N - methylhexan - 3 - amine



14. Give the correct IUPAC name for the amine :

$$CH_3 - CH_2 - CH - CH_3 \ ert \ NHCH_3$$

15. Give the correct IUPAC name for the amine :



16. Give the correct IUPAC name for the amine :





17. Give the correct IUPAC name for the amine :



Evaluation Textbook Questions Answers Choose The Correct Answer

1. Which of the following reagent can be used to convert nitrobenzene to aniline ?

A. Sn/HCl

B. ZnHg/ NaOH

C. $LiAlH_4$

D. All of these

Answer: A

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2. The method by which aniline cannot be prepared as :

A. degradation of benzamide with $Br_2/NaOH$

B. potassium salt of phthalimide treated with

chlorobenzene followed by hydrolysis with aqueous

NaOH solution

C. Hydrolysis of phenylcyanide with acidic solution

D. reduction of nitrobenzene by Sn/HCl

Answer: B

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3. Which one of the following will not undergo Hofmann bromamide reaction ?

A. $CH_3CONHCH_3$

 $\mathsf{B.}\, CH_3 CH_2 CONH_2$

 $\mathsf{C.}\,CH_3CONH_2$

D. $C_6H_5CONH_2$

Answer: A



4. Assertion : Acetamide on reaction with KOH and bromine gives acetic acid .

Reason : Bromine catalyses hydrolysis of acetamide .

A. if both assertion and reason are true and reason is the

correct explanation of assertion .

B. if both assertion and reason are true but reason is not

the correct explanation of assertion .

C. assertion is true but reason is false

D. both assertion and reason is false .

Answer: D



A. bromomethane

B. α -bromo sodium acetate

C. methanamine

D. acetamide

Answer: C

5.



6. Which one of the following nitro compounds does not react with nitrous acid ?

A.
$$CH_3 - CH_2 - CH_2 - NO_2$$

B. $(CH_3)_2CH - CH_2NO_2$
C. $(CH_3)_3CNO_2$
D. $CH_3 - C - C H - NO_2$

 CH_3

Answer: C

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7. Aniline + benzoylchloride $\xrightarrow{NaOH} C_6H_5 - NH - COC_6H_5$ this reaction is known as :

A. Friedel - crafts reaction

B. HVZ reaction

C. Schotten- Baumann reaction

D. none of these

Answer: C



8. The product formed by the reaction an aldehyde with a primary amine :

A. carboxylic acid

B. aromatic acid

C. schiff's base

D. ketone

Answer: B



9. Which of the following reaction is not correct ?



 $\mathsf{C.}\ CH_3CONH_2 \stackrel{Br_2/NaOH}{\longrightarrow} CH_3NH_2$

D. none of these

Answer: D



10. When aniline reacts with acetic anhydride the product formed is :

A. o-aminoacetophenone

B. m-aminoacetophenone

C. p-aminoacetophenone

D. acetanilide

Answer: D



11. The order of basic strength for methyl substituted amines in

aqueous solution is :

A. $N(CH_3)_3 > N(CH_3)_2 H > N(CH_3)H_2 > NH_3$

B. $N(CH_3)H_2 > N(CH_3)_2H > N(CH_3)_3 > NH_3$

C. $NH_3 > N(CH_3)H_2 > N(CH_3)_2H > N(CH_3)_3$

D. $N(CH_3)_2H > N(CH_3)H_2 > N(CH_3)_3 > NH_3$

Answer: A



12.
$$C_6H_5NO_2 \xrightarrow{Fe\,/\,HCl} A \xrightarrow{NaNO_2/\,HCl} B \xrightarrow{H_2O} C$$
 C is

A. $C_6H_5 - OH$

 $\mathsf{B.}\, C_6H_5-CH_2OH$

C. $C_6H_5 - CHO$

D. $C_6H_5NH_2$

Answer: D



- 13. Nitrobenzene on reaction with Conc. HNO_3/H_2SO_4 at
- $80-100\,^\circ C$ forms which one of the following products ?
 - A. 1, 4- dinitrobenzene
 - B. 2,4,6-trinitrobenzene
 - C.1, 2 dinitrobenzene
 - D. 1, 3 dinitrobenzene

Answer: B



14. $C_5H_{13}N$ reacts with HNO_2 to give an optically active compound - The compound is :

A. pentan - 1 - amine

B. pentan-2- amine

C. N , N- dimethylpropan - 2- amine

D. N- methylbutan-2-amine

Answer: B

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15. Secondary nitro alkanes react with nitrous acid to form :

A. red solution

B. blue solution

C. green solution

D. yellow solution

Answer: D

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16. Which of the following amines does not undergo acetylation ?

A.t - butylamine

B. ethylamine

C. diethylamine

D. triethylamine

Answer: B



17. Which one of the following is most basic?

- A. 2, 4- dichloroaniline
- B. 2, 4-dimethlyaniline
- C. 2, 4 dinitroaniline
- D. 2, 4- dibromoaniline

Answer: A



18. IUPAC name for the amine

$$CH_3 - N egin{array}{c} CH_3 \ - \ CH_3 \ - \ CH_3 \ - \ CH_3 \ - \ CH_2 - CH_3 \ - \ CH_3 \ - \$$

A. 3-dimethylamino -3- methyl pentane

B. 3 (N, N- Triethyl) - 3 - amino pentane

C. 3 - N, N- trimethyl pentanamine

D. 3- (N, N- Dimethyl amino) -3- methyl pentane

Answer: B

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19. Ammonium salt of benzoic acid is heated strongly with P_2O_5 and the product so formed is reduced and then treated

with $NaNO_2/HCl$ at low temperature . The final compound formed is :

A. Benzene diazonium chloride

B. Benzyl alcohol

C. Phenol

D. Nitrosobenzene

Answer: A



20. Among the following , the reaction that proceeds through an electrophilic substitution , is :

 $\mathsf{A}_{\bullet} \xrightarrow{\qquad} \overset{*}{\longrightarrow} \overset{*}{\overset}{\overset{*}{\longrightarrow} \overset{*}{\longrightarrow} \overset{*}{\overset}{\overset{*}{\longrightarrow} \overset{*}{\overset}{\overset{*}{\longrightarrow} \overset{*}{\overset}{\overset{*}{\overset}{\overset{*}{\overset}{\overset{*}{\overset}{\overset{*}{\overset}{\overset{*}{\overset}{\overset{*}{\overset}{\overset{*}{\overset$



Answer: B



Evaluation Textbook Questions Answers Answer The Following Questions

1. Write down the possible isomers of the $C_4H_9NO_2$ give their

IUPAC names .

 $CH_4H_9NO_2$



2. There are two isomers with the formula CH_3NO_2 . How will

you distinguish between them ?

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- 3. What happens when
- 2 Nitropropane boiled with HCl

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4. What happens when

Nitrobenzene undergo electrolytic reduction in strongly acidic

medium

5. What happens when

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Oxidation of tert-butylamine with $KMnO_4$

6. What happens when

Oxidation of acetoneoxime with trifluoroperoxy acetic acid .

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7. How will you convert nitrobenzene into

1,3,5-trinitrobenzene

8. How will you convert nitrobenzene into

o and p-nitrophenol

View Text Solution		
9. How will you convert nitrobenzene into		
·, ·,·		
m-nitro aniline		
View Text Solution		
10. How will you convert nitrobenzene into		
azoxybenzene		
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11. How will you convert nitrobenzene into

hydrazobenzene





17. Identify compounds A, B and C in the sequence	of reaction .
$CH_3NH_2 \stackrel{CH_3Br}{\longrightarrow} A \stackrel{CH_3COCl}{\longrightarrow} B \stackrel{B_2H_6}{\longrightarrow} C$	



19. Identify compounds A, B and C in the sequence of reaction.





20. Identify compounds A, B and C in the sequence of reaction .

$$CH_3CH_2NC \stackrel{HgO}{\longrightarrow} A \stackrel{H_2O}{\longrightarrow} B \stackrel{(i) NaNO_2/HCl}{\longrightarrow} (ii) H_2O$$

21. Write short note on Hoffmann's bromide reaction

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22. Write short note on Ammonolysis
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23. Write short note on Gabriel phthalimide synthesis
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24. Write short note on Schotten- Baumann reaction

25. Write short note on Carbylamine reaction

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26. Write short note on Mustard oil reaction
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27. Write short note on Coupling reaction
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28. Write short note on Diazotisation

29. Write short note on Gomberg reaction



30. How will you distinguish between primary , secondary and tertiary aliphatic amines .

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31. Account for Aniline does not undergo Friedel - Crafts

reaction



32. Account for Diazonium salts of aromatic amines are more

stable than those of aliphatic amines .



34. Account for Gabriel phthalimide synthesis is preferred for

synthesising primary amines .


35. Account for Ethylamine is soluble in water whereas aniline

is not

View Text Solution 36. Account for Amines are more basic than amides **View Text Solution** 37. Account for Although amino group is o-and p-directing in aromatic electrophilic substitution reactions, aniline on

nitration gives a substantial amount of m-nitroaniline .

38. Arrange In increasing order of solubility in water , $C_6H_5NH_2, (C_2H_5)_2NH, C_2H_5NH_2$



 $C_{6}H_{5}NH_{2}, C_{6}H_{5}NHCH_{3}, p-Cl-C_{6}H_{4}-NH_{2}$

41. Arrange In decreasing order of basic strength in gas phase

 $(C_2H_5)NH_2, (C_2H_5)NH, (C_2H_5)_5N$ and NH_3







46. How will you prepare propan-1- amine from propane nitrile

47. How will you prepare propan-1- amine from propanamide



50. How will you convert diethylamine into N, N - diethylacetamide





55. Predict A, B, C and D for the following reaction.



56. A dibromo derivative (A) on treatment with KCN followed by acid hydrolysis and heating gives a monobasic acid (B) along with liberation of CO_2 . (B) on treating with liquid ammonia followed by heating with Br_2/KOH gives (C) which on treating with $NaNO_2$ and HCl gives a monobasic acid (D) having molecular mass 74. Identify A to D.



 $\xrightarrow{CH,Cl} A \xrightarrow{HNO_1/H_2SO_4} B \xrightarrow{Sn/HCl}$ (Major product) $E \underbrace{CuCN} D \underbrace{NaNO_1/HCl}_{0^{\circ}C} C \underbrace{C}$

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Other Important Questions Answers Choose The Correct Answer

1. 1 , 2 - dimethyl -1- nitropropane . Choose the incorrect statement about this compound .

A. It is a primary nitro compound .

B. It is also called nitroneopentane .

C. The NO_2 group is attached to a secondary carbon atom.

D. It is an aliphatic compound .

Answer: C



2. 1-nitrobutane and 2- methyl -1- nitro propane :

A. chain isomers

B. position isomers

C. functional isomers

D. metamers

Answer: A



3. Which of the following nitro compounds does not exhibit tautomerism ?

A. CH_3NO_2

 $\mathsf{B.}\,CH_3CH_2NO_2$

$$\begin{array}{c}\mathsf{C}.\,CH_3 \underset{NO_2\\CH_3}{C}HCH_3\\\mathsf{D}.\,CH_3-\underset{O}{\overset{|}{C}}-NO_2\end{array}$$

Answer: D

4. The incorrect statement between nitroform and acidform of nitromethane is :

A. nitroform is less acidic where as aciform is more acidic .

B. nitroform dissolves in NaOH slowly while aciform

dissolves in NaOH instantly.

C. Both decolorise $FeCl_3$ solution

D. They are tautomers

Answer: C



5. $CH_3CH = NOH \xrightarrow{CF_3COOH} A \xrightarrow{Sn/HCl} B$. Identify A and B .



Answer: A

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6. The products obtained by the reduction of nitromethane in

acid medium and neutral medium are :

A. methylamine and N-methylhydroxylamine

B. methylamine and ethanol

C. N-methylhydroxylamine and methylamine

D. N-methylhydroxylamine in both cases .

Answer: A



7. An amine is boiled with HCl and H_2O . Which of the following will give acetone :

A. CH_3NH_2

 $\mathsf{B.} (CH_3)_2 CHNO_2$

 $\mathsf{C.} (CH_3)_3 CNO_2$

D. both (b) and (c)

Answer: B

8. The correct IUPAC name for $CH_2 = CH - CH_2NH - CH_3$

is

A. Allylmethyl amine

B. 2-amino-4-pentane

C. 4 amino pent-1-ene

D. N- methyl prop-2-en-1 amine

Answer: D

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9. Amongst the following the strongest base in aqueous medium is :

A. CH_3NH_2

 $\mathsf{B.}\,NC-CH_2NH_2$

 $\mathsf{C}.\,(CH_3)_2NH$

D. $C_6H_5NH - CH_3$

Answer: C



10. In order of prepare a 1° amine from an alkyl halide with simultaneous addition of one CH_2 group in the carbon chain , the reagent used a source of nitrogen is :

A. Sodium amide , $NaNH_2$

B. Sodium azide , NaN_3

C. Potassium cyanide , $K\!CN$

D. Potassium phthalimide $C_6 H_4 (CO_2) N^- K^+$

Answer: C

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11. Best method for preparing primary amines from alkyl halides

without chaning the number of carbon atoms in the chain is :

A. Hoffmann bromamide

B. Gabriel's phthalimide synthesis

C. Sandmeyer's reaction

D. Reaction with NH_3

Answer: B



12. Which of the following comounds is the weakest Bronsted

base ?





Answer: C

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13. Which of the following compounds cannot be prepared by

Sandmeyer's reaction ?

(I) Chlorobenzene (II) Bromobenzene

(III) Iodo benzene (IV) Fluoro benzene

A. (IV)

B. (III)

C. (I) and (II)

D. (III) and (IV)

Answer: A

14. The products of the following reaction are :





A. (iV)

B. (III)

C. (I) AND (II)

D. (III) and (IV)

Answer: C



15. An organic compound 'A' on treatment with NH_3 gives B which on heating gives C , C when treated with Br_2 in the presence of KOH produces ethylamine . The compound A is

A. CH_3COOH

 $\mathsf{B.}\,CH_3CH_2CH_2COOH$

C. $CH_3 \underset{| \\ CH_3}{CH_3} C HCOOH$

D. CH_3CH_2COOH

Answer: D



16. In a set of reactions , meta mono benzoic acid gave a product 'D' . Identify D .







Β.





D.

Answer: D













Answer: B

18. Aniline in a set of following reactions yielded a coloured product Y . The structure of Y would be :



Answer: B



19. Butylamine (I), diethyl amine (II) and N, N diethyl amine, (III) have the same molar mass. The increasing order of their boiling points is :

A. III < II < IB. I < II < IIIC. II < III < I

D. III < I < II

Answer: A



20. Assertion : Ammonolysis of alkyl halides is not a suitable method for the preparation of primary amines .

Reason : Ammonolysis of alkyl halides mainly produces 2° amines .

A. Both assertion and reason are true and reason is the

correct explanation of assertion.

B. Both assertion and reason are true and reason is not the

correct explanation of assertion .

C. Assertion is true but reason is false

D. Both assertion and reason is false .

Answer: C

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21. Assertion : Gabriel phthalimide reaction can be used to

prepare aryl and arylalkyl amines .

Reason : Aryl halides are as reactive as alkyl halides towards nucleophilic substitution reactions .

A. Both assertion and reason are true and reason is the

correct explanation of assertion.

B. Both assertion and reason are true and reason is not the

correct explanation of assertion .

C. Assertion is true but reason is false

D. Both assertion and reason is false .

Answer: D

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22. Assertion : Aniline does not undergo Friedel Craft's reaction

Reason : Friedel crafts reaction is an electrophilic substitution reaction .

A. Both assertion and reason are true and reason is the

correct explanation of assertion.

B. Both assertion and reason are true and reason is not the

correct explanation of assertion .

C. Assertion is true but reason is false

D. Both assertion and reason is false .

Answer: B

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Other Important Questions Answers Answer The Following Questions

1. Classify 1,2 , dimethyl -1-nitropropane aliphatic or aromatic

nitro compounds.

View Text Solution 2. Classify 2-nitro-1-methyl benzene aliphatic or aromatic nitro compounds. **View Text Solution** 3. Classify 1,3, 5 trinitro benzene aliphatic or aromatic nitro compounds. **View Text Solution**

4. Classify 2 - phenyl - 1- nitro ethane aliphatic or aromatic nitro compounds.

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5. Classify 2 - methyl - 2- nitro propane aliphatic or aromatic

nitro compounds.



6. What are nitro compounds ? How are they classified ? Give

one example for each type .



7. Write the structural formula of the isomers of the compound

and indicate the type of isomerism is involved .

1 - nitrobutane .

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8. Write the structural formula of the isomers of the compound

and indicate the type of isomerism is involved .

nitroethane .

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9. Methyl nitrite and nitro methane exhibits tautomerism . How

will you distinguish between these form ?

10. Between 2-nitrobenzene, and 2-methyl - 2- nitro propane

which does not exhibit tautomerism ? Why ?

|--|

11. Explain the acidic nature of nitroalkanes .



12. How will you prepare nitro benzene from ethyl bromide



13. How will you prepare nitro benzene from methane



16. How will you prepare nitro benzene from acetaldoxine .



17. Give equation for the reduction of nitro methane in acid

medium

View Text Solution 18. Give equation for the reduction of nitro methane in neutral medium. **View Text Solution** 19. Complete the equation . Identify A , B and C . + HNO,
20. Complete the equation . Identify A , B and C .



21. Complete the equation . Identify A , B and C .



23. How does ethyl nitrite react with HCl/H_2O



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26. How are the conversion made ? Nitro benzene to nitroso

benzene



27. How are the conversion made ? Nitro benzene to azo benzene

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28. How are the conversion made ? Nitro benzene to hydrazo

benzene.



29. Identify the reagents used in the conversion . Write complete equation

nitrobenzene to aniline.

30. Identify the reagents used in the conversion . Write

complete equation

metadinitrobenzene to metanitroaniline

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31. Identify the reagents used in the conversion . Write

complete equation

nitrobenzene to 3-nitrobenzene sulphonic acid .

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32. Explain why nitro group in nitro benzene is meta directing .

33. How will you effect the conversion

Benzene to m-chloro nitro benzene



m -chloro nitro benzene to m-chloro aniline

36. How will you effect the conversion

1, 3, di nitrobenzene to 3 - nitro aniline.







46. Give the IUPAC name of $C_6H_5CH_3NH_2$





47. Write the structures of the chain isomers of Butan-1- amine .

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48. Explain metamerism with a suitable example of amines .
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49. What are all the possible isomers of an amine having the
molecular formula C_3H_9N and $C_4H_{11}N$







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55. Write the structure of prop-2-en-1- amine
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56. Write the structure of N - ethyl - N - methylbenzenamine
View Text Solution
57. Write the structure of 3 - methylbenzenamine



62. How is ethanamine prepared from acetamide

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63. How is ethanamine prepared from ethyl bromide ?
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64. Identify the product :
$C_{6}H_{5}NO_{2} \overset{H_{2}/Pt}{\longrightarrow}$
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65. Identify the product :

 $CH_3NC \xrightarrow[]{Na/Hl}]{}_{alcohol}$



 $C_{6}H_{5}CONH_{2} \xrightarrow{(i) LiAlH_{4}} (ii) H_{2}O$

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68. Using sodium azide (NaN_3) convert methyl bromide to methyl amine .

69. How will you prepare aniline from chloro benzene

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70. How will you prepare aniline from phenol
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71. What happens when
Vapours of ethanol and ammonia are passed over alumina



72. What happens when Ethanamide is treated with $LiAlH_4$.

Give equation

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73. Explain why?

Amines have higher boiling points than hydrocarbons of comparable molecular mass.

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74. Explain why?

Among isomeric amines 3° amines have the lowest melting point .

75. Explain why?

The boiling point of amines are lower than those of alcohols and acids of comparable molecular mass .

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76. Explain why?

Aliphatic amines with maximum six carbon atoms are soluble in

water to some extent while aromatic amines are insoluble in

water .



77. Account for the fact that among ethyl amines , the decreasing order of basicity in aqueous solution is $(CH_3CH_2)_2NH > (CH_3CH_2)_3N > CH_3CH_2NH_2$

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78. How does nitrous acid (a mixture of sodium nitrite and dil,

HCl) react with (i) CH_3CH_2 (ii) $(CH_3)_3NH$ and (iii) $(CH_3)_3$?

Give equations.

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79. How does nitrous acid react with ethylamine ? Give equations

80. How does nitrous acid react with di-ethylamine ? Give equations

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81. How does nitrous acid react with triethyl amine ? Give equations

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82. How does nitrous acid react with aniline ? Give equations

83. How does nitrous acid react with N- methyl aniline ? Give

equations

View Text Solution 84. How does nitrous acid react with N, N- dimethylaniline ? **Give equations View Text Solution** 85. Explain why amino group is ortho para directing in

electrophilic substitution reactions .

86. Aniline gives 2 , 4 , 6 tribromo aniline when treated with bromine water , but not a monobromo aniline . Explain . Why?



87. Why is it necessary to acetylate aniline to get a mono bromo aniline ?



88. Explain why direct nitration of aniline gives a mixture of

ortho, meta and para isomers.



89. How will you convert aniline ?

to p-bromo aniline



91. How will you convert aniline ?

to para nitro aniline

92. How will you convert aniline ?

to benzene diazonium chloride



95. How will you distinguish between primary , secondary and

tertiary amines ?



98. Complete the reaction :

 $C_6H_5N_2Cl+Cu_2Cl_2+HCl
ightarrow$



101. Complete the reaction :

 $C_6 H_5 N_2 C l + H B F_4
ightarrow \, {
m fluoro} \, {
m boric} \, {
m acid}$



104. Give example for Gattermann reaction



105. How does the reagent react with benzene diazonium

chloride ? Give equation

 HBF_4 and the product formed is heated .



106. How does the reagent react with benzene diazonium chloride ? Give equation

 HBF_4 and the product formed is heated with aqueous

solution of sodium nitrite in the presence of copper.



107. How does the reagent react with benzene diazonium

chloride ? Give equation

 HBF_4 and the product is heated with CH_3COOH

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108. How does the reagent react with benzene diazonium

chloride ? Give equation

Cuprous cyanide in the presence of KCN.

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109. Accomplish the conversion

Nitrobenzene to benzene

110. Accomplish the conversion

4-Nitro aniline to 1, 2, 3 - tribromo benzene

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111. Accomplish the conversion

p-toludine to 2- bromo - 4- methyl aniline

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112. Accomplish the conversion

m-nitro aniline to m- chloroaniline

113. Accomplish the conversion

p-nitroaniline to p-iodonitro benzene



116. Give equation for the reaction.

Heating acetamide with P_2O_5



118. Give equation for the reaction.

Treating methyl magnesium bromide with cyanogen chloride.

119. Write the IUPAC names of the following

$CH_3CH_2CN,$



120. Write the IUPAC names of the following

 $CH_3CH_2CH_2CN$

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121. Write the IUPAC names of the following

$$CH_3 \mathop{C}\limits_{igcup_{CN}} H - CH_3 \ _{CN}$$









124. What is the reducing agent used in the following reduction

reactions . Give equations

(i) Ethanenitrile to ethanamine

- (ii) Benzonitrile to benzylamine
- (iii) Ethane nitrile to Acetaldimine hydrochloride which on

hydrolysis gives acetaldehyde.

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125. Give examples for Thrope nitrile condensation
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126. Give examples for Levine and Hauser acetylation
View Text Solution
127 Muite the electronic structure of elled evenides and

127. Write the electronic structure of alkyl cyanides and isocyanides .



130. Name the reagents used in the reaction.

 $C + AgCN
ightarrow CH_3CH_2NC + AgBr$
131. Name the reagents used in the reaction.

$$CH_3 - NH - \mathop{C}_{\mid\mid} C - H \xrightarrow{POCl_3} D + H_2O$$

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132. What happens when methyl isocyanide is :

treated with dilute HCl.

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133. What happens when methyl isocyanide is :

treated with sodium and alcohol

134. What happens when methyl isocyanide is :

heated at $250^{\,\circ}\,C$



137. Mention the use of Nitrobenzene

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139. An organic compound (A) having the molecular formula C_2H_7N is treated with nitrous acid to give (B) of molecular formula C_2H_6O which answers iodoform test . Identify A and B and explain the reactions .



140. An organic compound (A) with molecular formula $C_6 H_7 N$ gives (B) with HNO_2 /HCl at 273 K . The aqueous solution of

(B) on heating gives compound (C) which gives violet colour with neutral $FeCl_3$. Identify the compound A , B and C . Write the equations .

