



CHEMISTRY

BOOKS - KALYANI CHEMISTRY (ENGLISH)

APPENDIX II (TYPICAL CONVERSIONS)

Aliphatic Conversions

1. Conversion of Methane into ethane



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2. Conversion of Ethane into propane



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3. How will you convert ethane to methane?



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4. Conversion of 2-Butene into n-Butane



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5. Bring about the following conversion :

Ethanol to ethene



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6. Conversion of Acetylene into ethanal



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7. Conversion of Ethyne into ethane



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8. How will you convert propene to 2-bromopropane



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9. Write the mechanism of hydration of ethene to yield ethanol.



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10. Conversion of Methane into iodomethane



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11. Give the balanced chemical equations for the Sodium ethanoate to methane.



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12. Conversion of Ethyl iodide into ethane



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13. Conversion of Acetylene into acetaldehyde



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14. Conversion of Acetylene into 1, 1-dichloroethane



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15. Conversion of Acetylene into but-1-yne





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16. Conversion of Acetylene into benzene



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17. Conversion of Ethyl chloride into n-butane



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18. Conversion of Propyl chloride into propene





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19. Conversion of Acetylene into ethene



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20. Conversion of Acetylene into oxalic acid



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21. Conversion of Ethylene into ethylene glycol





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22. Conversion of Acetylene into methane



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23. Conversion of Methane into acetylene



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24. Conversion of Calcium Carbide into Hexachloroethane



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25. Conversion of Aluminium carbide into Methyl chloride



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26. Conversion of Ethyne into ethane



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27. Conversion of Lime into Benzene



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28. Conversion of Ethane to Ethylene



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29. Conversion of Ethylene into Acetylene



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30. Conversion of Ethane to Acetylene



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31. Conversion of Propylene into Isopropyl alcohol



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32. Conversion of Acetylene into Vinyl acetate



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33. Conversion of Pent-1-ene to Pent-2-yne



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34. Conversion of Acetylene to Acetone (four steps)



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35. Conversion of Ethene into ethanol



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36. Conversion of 2-chloro-2-methylpropane to 2,2,3,3,-tetramethylbutane



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37. Conversion of 1-Bromopropane to 2-Bromopropane



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38. Conversion of Propan-1-ol to Propan-2-ol



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39. Conversion of Ethyne to 1,2-dibromoethane



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40. Conversion of Ethene to Propanoic acid



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41. Conversion of Acetone to Acetamide



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42. Conversion of Propionic acid to Acetic acid



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43. Conversion of Acetylene to Acetone (four steps)



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44. Conversion of Ethanol to Propanone



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45. Conversion of Acetylene to Iodoform



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46. Conversion of Acetaldehyde to Methane



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47. Conversion of Acetylene to Lactic acid



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48. Conversion of Acetylene into acetic acid



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49. Carry out the following conversions :

Ethanol to acetone.



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50. Conversion of Ethyl chloride into methyl chloride



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51. Conversion of Ethanol into methanol



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52. Conversion of Formic acid into acetic acid



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53. Conversion of Acetic acid into formic acid



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54. Conversion of Ethyne into propyne



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55. Conversion of Ethyl alcohol into chloroform



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**56. Conversion of Acetaldehyde into lactic acid
(α - Hydroxypropionic acid)**





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57. Conversion of Propionic acid into lactic acid



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58. Conversion of Glycerol into propylene



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59. Conversion of





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60. Conversion of Acetone into iodoform



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61. Conversion of Ethanamine into methanol



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62. Conversion of Methyl amine into ethyl alcohol



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63. How will you convert the following :

(i) Nitrobenzene into aniline,

(ii) Ethanoic acid into methanamine

(iii) Aniline into N-phenylethanamine (write the chemical equations involved).



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64. Conversion of Acetyl chloride into acetone



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65. Conversion of glycerol into acrolein



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66. Conversion of Glycerol to Allyl Iodide



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67. Benzene diazonium chloride on reaction with aniline in the presence of dilute hydrochloric acid gives :



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68. Conversion of Propan-2-ol into propan-1-ol



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69. Conversion of Ethanal to 2-Hydroxy -3-butenoic acid



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70. Conversion of Carbon disulphide into carbon tetrachloride



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71. Conversion of Sodium - Lead alloy to Lead tetraethyl



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72. Conversion of Propionaldehyde into propionic anhydride



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73. Conversion of Ethanoic acid to mixture of methanoic acid and diphenyl ketone



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74. Conversion of Acetic acid to acetone and tertiary butyl alcohol



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75. Conversion of Acetaldehyde into isopropyl alcohol



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76. Conversion of Ethyl alcohol to vinyl acetate



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77. Conversion of CO_2 to CH_3COOH



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78. Conversion of Acetylene into Ethanol



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79. Conversion of Methyl chloride into Acetic acid



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80. Conversion of Ethyl chloride into n-Propylamine



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81. Conversion of Ethyne into But-2-enal



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82. Conversion of Ethyne into Propionic acid



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83. Conversion of Propene into n - Propyl alcohol



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84. How will you bring about following conversion : Formic acid to oxalic acid ?



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85. Conversion of Carbon disulfide into chloroform.



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86. Conversion of Acetone to propane



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87. Conversion of Acetone to acetaldehyde



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88. Conversion of Propionic acid to Butylamine

(four steps)



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89. Conversion of Propionic acid to Diethyl
ketone



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90. Conversion of Acetaldehyde to n-Butyl alcohol



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91. Conversion of Propanoic acid to propan-1-ol



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92. Conversion of Acetone to ter. butyl alcohol



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93. Conversion of Propane to allyl chloride



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94. Conversion of Ethylamine to Ethane



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95. How will you bring about the following conversions ?

(i) Benzoic acid to Benzaldehyde

(ii) Benzene to m-Nitroacetophenone

(iii) Ethanol to 3-Hydroxybutanal.



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96. Conversion of Propanone to propene



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Aromatic Conversions

1. Conversion of Toluene into benzene



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2. Conversion of Benzene into Ethylbenzene



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3. Conversion of Benzene into benzoic acid



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4. Conversion of Benzene and nitrobenzene into aniline



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5. Conversion of Benzoic acid into benzamide and vice versa



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6. Conversion of Chlorobenzene to benzene



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7. Conversion of Benzene to methyl benzoate



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8. Conversion of Benzene to m-nitrobenzoic acid
Benzene to benzoic acid as in Q.7



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9. Conversion of Benzene to p-Nitrobenzoic acid



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10. Conversion of Ethylbenzene to benzoic acid



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11. Conversion of Toluene to benzaldehyde



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12. Conversion of Aniline into para-nitroaniline

(3 steps)



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13. Conversion of Benzaldehyde into benzene



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14. Conversion of Benzene to phenol



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15. Conversion of Phenol into salicylic acid



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16. Conversion of Benzene into meta-dinitrobenzene



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17. Conversion of Phenol into Toluene .



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18. Conversion of Salicylic acid into phenol



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19. Conversion of Benzoic acid into aniline



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20. Conversion of Nitrobenzene or Aniline into sulfanilic acid



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21. Conversion of Aniline into benzonitrile to benzoic acid



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22. Conversion of Phenol into aniline



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23. Conversion of Aniline into chlorobenzene



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24. Conversion of Benzene to m-nitroaniline



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25. Conversion of Benzene to m-chloroaniline



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26. Conversion of Aniline to p-bromoaniline



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27. Conversion of Nitrobenzene to phenol



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28. Conversion of Benzoic acid to m-nitrobenzyl alcohol



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29. Conversion of Benzaldehyde to benzophenone



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30. Conversion of Benzaldehyde to 3-phenylpropan-1-al



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31. Conversion of Nitrobenzene to m-bromochlorobenzene



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32. Conversion of Benzamide to benzene



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33. Conversion of Bromobenzene to 1-phenylethanol



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34. Conversion of Bromobenzene to benzoic acid



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35. Conversion of Benzyl alcohol to phenylacetic acid



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36. Conversion of Benzoic acid to m-nitrobenzyl alcohol



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37. Conversion of Benzyl chloride to benzonitrile



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38. Conversion of Benzaldehyde to *c*-hydroxyphenylacetic acid



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39. Conversion of Benzaldehyde to 3-phenylprop-2-enal



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40. Conversion of Chlorobenzene into aniline



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41. Conversion of Benzoic acid into phenol



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42. Conversion of Phenol into benzoic acid



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43. Conversion of Aniline into benzene



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44. Conversion of Benzaldehyde to
Cyanobenzene



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45. Conversion of Toluene to p-Methylbenzoic acid



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46. reaction of Benzene and Succinic acid



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47. Conversion of Aniline to Benzylamine



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48. Conversion of Nitrobenzene to m-Bromophenol



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49. Conversion of Nitrobenzene to m-Nitrophenol



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50. Write steps to carry out the conversion of phenol to aspirin.



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51. Conversion of Benzoic acid to m-Bromoaniline



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52. Conversion of Benzaldehyde to m-Hydroxybenzaldehyde



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53. Conversion of Aniline to 1, 3, 5-Tribromobenzene



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54. Conversion of

CH_3CHO to $(CH_3)_2C(OH)Ph$



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55. Conversion of Acetophenone to Benzoic acid.



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56. Conversion of Aniline to phenol



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57. Conversion of Aniline to bromobenzene



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58. Conversion of Aniline to Iodobenzene



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59. Conversion of Aniline to fluorobenzene



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60. Conversion of Aniline to p-hydroxyazobenzene



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61. Conversion of Benzenesulfonic acid to aniline



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62. Conversion of Benzene to m-nitroacetophenone



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63. Conversion of Toluene to m-nitrobenzoic acid



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64. Conversion of Phenol to acetophenone





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65. Conversion of Salicylic acid to benzene



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66. Conversion of Benzoic acid to
benzaldehyde



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67. Conversion of Benzoic acid to benzyl chloride



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68. Conversion of Benzaldehyde to acetophenone



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69. Conversion of Phenylhydroxylamine from benzene



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70. Conversion of Phenylhydrazine from aniline



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71. Conversion of Ethylbenzene to 2-phenylpropionic acid



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72. Conversion of Nitrobenzene to acetanilide



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73. Conversion of Ethylbenzene to benzene



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74. Conversion of Nitrobenzene to m-nitroaniline



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75. Conversion of Benzene to benzophenone



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76. Conversion of Benzene into m-dichlorobenzene



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77. Conversion of Benzene into 4-nitrobenzaldehyde



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78. Conversion of Nitrobenzene to benzamide



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79. Conversion of 4-Nitroaniline to 1, 2, 3-tribromobenzene



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80. Conversion of Toluene into p-nitrobenzyl ethyl ether



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81. Conversion of Benzene into phenylacetic acid



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82. Conversion of D.D.T. from benzene



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83. Conversion of Toluene into p-xylene



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84. Conversion of p-Nitroacetanilide into p-dinitrobenzene



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85. Conversion of Benzene to Acetophenone



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86. Conversion of Aniline to dimethylaniline



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87. Conversion of Nitrobenzene to phenylhydrazine



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88. Conversion of Nitrobenzene to phenylhydroxylamine



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89. Conversion of Benzaldehyde to cinnamic acid



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90. Conversion of Benzene into phenylhydrazine

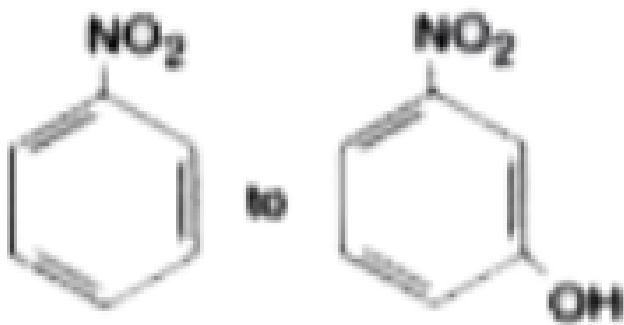


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91. Conversion of Aniline into nitrobenzene
(without the intermediacy of benzene)

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92. Conversion of



(in not

more than four steps)

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93. Conversion of Benzene into m-bromiodobenzene

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94. Conversion of Bromobenzene to p-methoxyphenol (in not more than five steps)

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95. Conversion of Aniline to Benzonitrile



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96. Conversion of Benzoic acid to m-Fluorobenzoic acid (in not more than 3 steps)



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97. Conversion of Bromobenzene to benzoic acid



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98. Conversion of Bromobenzene to 1-phenylethanol



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