

ChemHL Benzene&Reduction G11	
*您的姓名:	
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* 1. The reagents used for the reaction from $\mathrm{CH_3CH_2CHO}$ to $\mathrm{CH_3CH_2CH_2OH}$	is
○ A. Heat with NaBH4 in acidic solution	
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution	
C. Heat with tin and conc. HCl, followed with NaOH solution	
O. Heat with H2 with Ni catalyst	
○ E. Both A & B can be used.	
F. All of A, B and D can be used.	
* 2. The reagents used for the reaction from $\mathrm{CH_3CH_2COCH_3}$ to $\mathrm{CH_3CH_2CHOHCH_3}$ is	
○ A. Heat with NaBH4 in acidic solution	
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution	
C. Heat with tin and conc. HCl, followed with NaOH solution	
○ D. Heat with H2 with Ni catalyst	
○ F Both A & B can be used	

F. All of A, B & D can be used.		
* 3. The reagents used for the reaction from $C_6H_5NO_2$ to $C_6H_5NH_2$ is		
○ A. Heat with NaBH4 in acidic solution		
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution		
C. Heat with tin and conc. HCl, followed with NaOH solution		
O. Heat with H2 with Ni catalyst		
○ E. Both A & B can be used.		
○ F. All of A, B & D can be used.		
* 4. The reagents used for the reaction from C_6H_6 to cyclohexane is		
○ A. Heat with NaBH4 in acidic solution		
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution		
C. Heat with tin and conc. HCl, followed with NaOH solution		
O. Heat with H2 with Ni catalyst		
○ E. Both A & B can be used.		
○ F. All of A, B & D can be used.		
* 5. The reagents used for the reaction from $\mathrm{CH_3CH} = \mathrm{CHCH_3}$ to $\mathrm{CH_3(CH_2)_2CH_3}$		
is		
A. Heat with NaBH4 in acidic solution		
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution		
C. Heat with tin and conc. HCl, followed with NaOH solution		
○ D. Heat with H2 with Ni catalyst		
○ E. Both A & B can be used.		
F. All of A, B & D can be used.		

*6. The reagents used for the reaction from CH ₃ COCOOH to CH ₃ CHOHCH ₂ OH is
○ A. Heat with NaBH4 in acidic solution
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution
C. Heat with tin and conc. HCl, followed with NaOH solution
O. Heat with H2 with Ni catalyst
○ E. Both A & B can be used.
○ F. All of A, B & D can be used.
\star 7. The reagents used for the reaction from CH $_3$ COCOOH to CH $_3$ CHOHCOOH
is
○ A. Heat with NaBH4 in acidic solution
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution
C. Heat with tin and conc. HCl, followed with NaOH solution
O. Heat with H2 with Ni catalyst
○ E. Both A & B can be used.
○ F. All of A, B & D can be used.
* 8. The reagents used for the reaction from $\mathrm{CH_2}\text{=}\mathrm{CHCOCOOH}$ to $\mathrm{CH_2}\text{=}\mathrm{CHCHOHCH_2OH}$ is
○ A. Heat with NaBH4 in acidic solution
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution
C. Heat with tin and conc. HCl, followed with NaOH solution
O. Heat with H2 with Ni catalyst
○ E. Both A & B can be used.
○ F. All of A, B & D can be used.

*9. The reagents used for the reaction from CH ₂ =CHCOCOOH to CH ₃ CH ₂ CHOHCOOH is
○ A. Heat with NaBH4 in acidic solution
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution
C. Heat with tin and conc. HCl, followed with NaOH solution
O. Heat with H2 with Ni catalyst
○ E. Both A & B can be used.
○ F. All of A, B & D can be used.
* 10. The reagents used for the reaction from O2NC6H4COOH to O2NC6H4CH2OH is
○ A. Heat with NaBH4 in acidic solution
○ B. Heat with LiAlH4 in dry ether, followed with acidic solution
C. Heat with tin and conc. HCl, followed with NaOH solution
O. Heat with H2 with Ni catalyst
○ E. Both A & B can be used.
○ F. All of A, B & D can be used.
* 11. The reagents used for the reaction from ${\rm O_2NC_6H_4COOH}$ to ${\rm H_2NC_6H_4COOH}$ is
○ A. Heat with NaBH4 in acidic solution
B. Heat with LiAlH4 in dry ether, followed with acidic solution
C. Heat with tin and conc. HCl, followed with NaOH solution
O. Heat with H2 with Ni catalyst
○ E. Both A & B can be used.
F. All of A, B & D can be used.

chlorination of propene?	
A. Benzene only und	ergoes substitution while propene undergoes addition.
B. Benzene is liquid	under RTP while propene is a gas.
C. Benzene has a lov propene.	wer bond order of C-C bond so is weaker than that in
_	ity on the carbon atoms in benzene is lower than in the ed in C=C bond in propene.
acid is (fill in with conder	on of the reaction between methylbenzene and nitric used structural formula, methylbenzene first. For et prior to inorganic one.) +
(with the methyl group of show the chemical equa	e reacts with nitric acid, substitution occurs on C4 n C1). Write the mechanism for this reaction. Also tion of the formation of the electrophile in this reaction on of the regeneration of the catalyst.
Upload your drawing here.	⚠ 选择文件(不超过4M)

* 12. Why a catalyst is required for the chlorination of benzene but not for the

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