



CHEMISTRY

BOOKS - SHARAM PUBLICATION

AROMATIC CARBOXYLIC ACID



1. The correct order of acidic strength is

A. formic acid Itbenzoic acidItacetic acid

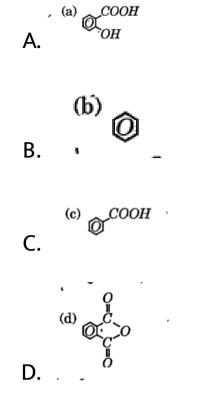
B. formic acid Itacetic acid Itbenzoic acid

C. acetic acid ltformic acidltbenzoic acid

D. acetic acid Itbenzoic acid Itformic acid

Answer:





Answer:



3. The reagent which does not give acid chloride on treating with a carboxylic acid is

A. PCl_5

 $\mathsf{B.}\,Cl_2$

 $\mathsf{C}.\,SOCl_2$

D. PCl_3

Answer:

4. Which of these does not contain - COOH

group?

A. aspirin

B. benzoic acid

C. picric acid

D. salicylic acid

Answer:

5. When benzoic acid is treated with PCl_5 at 100° , it gives

A. benzoyl chloride

B. o-chlorobenzoic acid

C. p-chloro benzoic acid

D. benzyl chloride

Answer:

6. The oxidation of toluene with alk. $KMnO_4$

gives:

A. Benzoic acid

B. benzene

C. benzaldehyde

D. benzylalcohol

Answer:

7. Between benzoic acid and acetic acid which

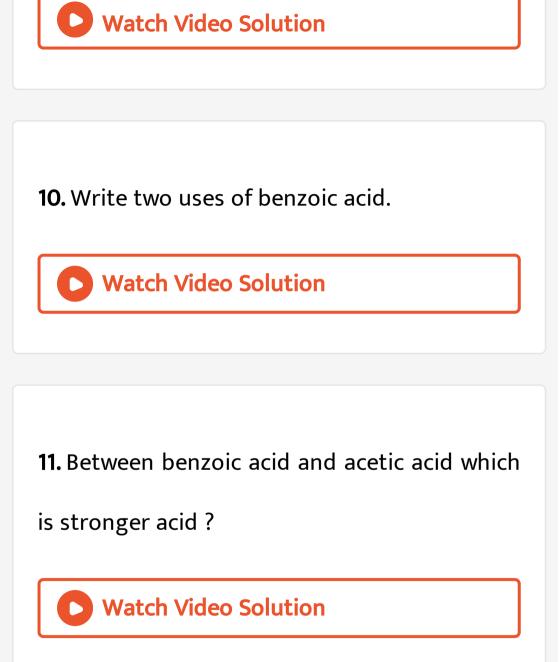
is stronger acid ?

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8. Write the structural formula of m-nitro benzoic acid.

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9. Write a test for benzoic acid.



12. Fill up the blanks : Toluene on oxidation in

alkaline medium gives......

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13. Fill in the blanks :Benzonitrile on acid

hydrolysis gives as first product .

14. Fill in the blanks:Benzoic acid on

chlorination gives.....

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15. What happens when benzoic acid is treated

with $SOCl_2$?



16. How can you prepare benzoic acid from

Grignard reagent? Give equations only.



17. What product is formed when benzoic acid

is treated with fuming H_2SO_4 ?



18. Give an example of Rosenmund reduction. Can formaldehyde be prepared by this method?



19. What happens when methyl cyanide is reduced by $Sncl_2$ in presence of HCI?



20. Why boiling point of aldehydes and ketones are higher than those of hydrocarbons of comparable molecular mass?



21. Convert of ethyl alcohol into acetaldehyde

is an example of



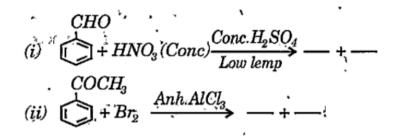
22. What happens when acetone reacts with

semicarbazide?

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23. What is Clemmensen reduction reaction?

24. Complete the reaction.



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25. How is benzoic acid prepared from toluene?

26. How is acetic acid prepared from methyl

magnesium bromide?

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27. What happens when acetic acid reacts with

ammonia?

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28. How do you account for acidic nature of

carboxylic acid?



29. Lower aliphatic carboxylic acids are completely soluble in water but solubility decreases with increase of molecule mass. Why?

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30. Write a note on Kolbe's reaction.

31. What happens when benzoic acid is treated

with Br_2 and $FeBr_3$?

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32. Why is p-nitrobenzoic acid stronger than

benzoic acid?

33. How does benzoic acid react with

sodalime.

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34. How does benzoic acid react with

thionyl chloride



35. How does benzoic acid react with

acetic anhydride.

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36. Explain two methods for the preparation of

benzoic acid. How does it react with

ammonia.