



CHEMISTRY

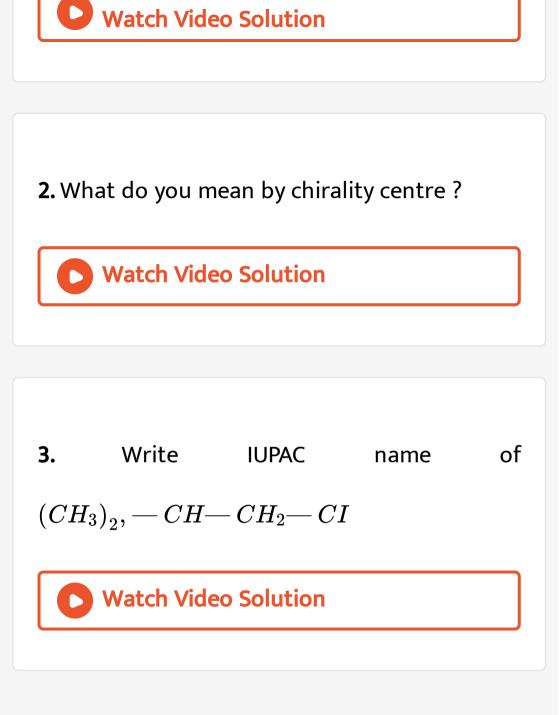
BOOKS - OSWAAL PUBLICATION CHEMISTRY (KANNADA ENGLISH)

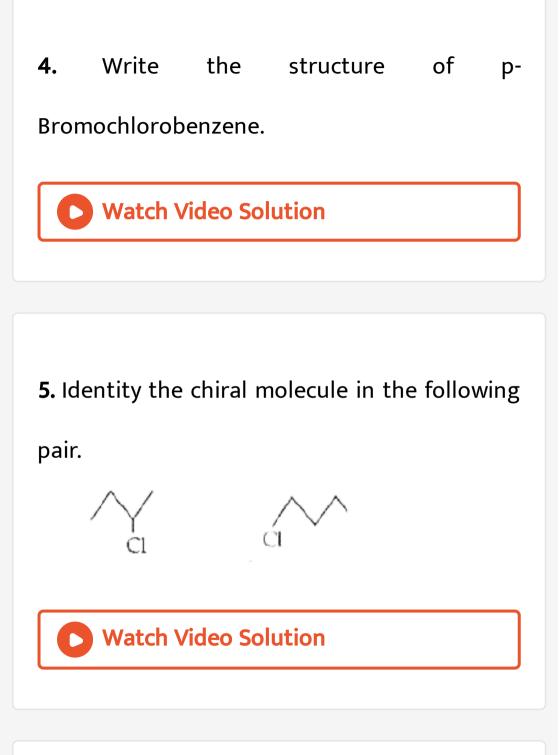
HALOALKANES & HALOARENES

Topic 1 Some Important Terms And Definitions Very Short Answer Type Question

1. What is optical activity ? Explain.



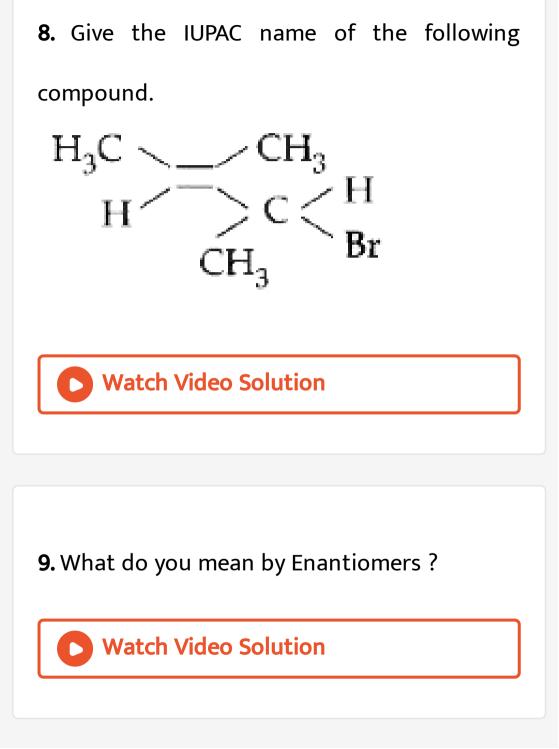




6. Give IUPAC name of the following compound. (i) $CH_3CH(CI)CH(Br)CH_3$ $CICH_2C = \mathbb{C}H_2Br$ Watch Video Solution

7. Write the structure of the compound 4-ter-

butyl-3-iodoheptane.



10. Define plane polarised light.

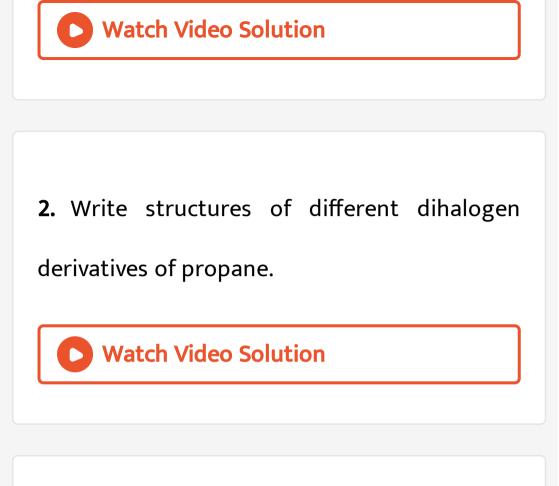


Topic 1 Some Important Terms And Definitions Short Answer Type Questions

1. What is optical activity ? Which one of the following compounds shows optical isomerism

$$Br-egin{array}{ccc} H & & OH \ ec{l} Rr-egin{array}{ccc} OH \ ec{l} CH_3 & & Br-egin{array}{ccc} OH \ ec{l} CH_3 & & COOH \end{array}$$

?



- **3.** Write structures of the following compounds.
- (i) 2-chloro-3-methylpentane
- (ii) 1,4-Dibromobut-2-ene





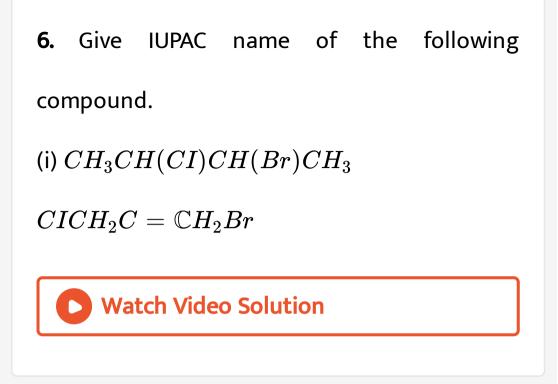
4. Write the isomers of the compound having

formula C_4H_9 Br.

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5. What are ambident nucleophiles ? Explain

write an examples too.

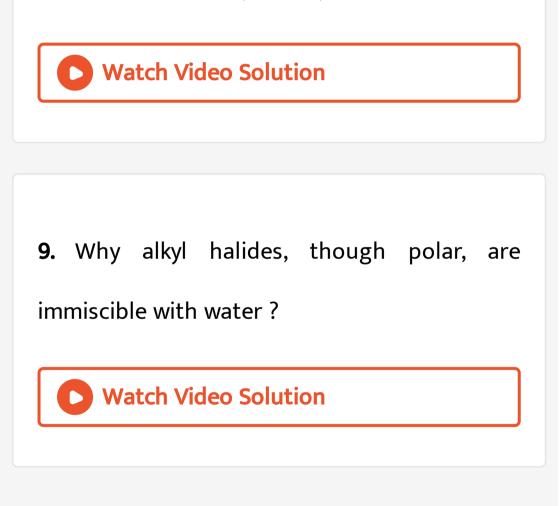


7. Which one of the following has highest

dipole moment ?

8. Why the dipole moment of chlorobenzene is

lower than that of cyclohexyl chloride ?



Topic 1 Some Important Terms And Definitions Long Answer Type Questons I 1. Write the structure formula and IUPAC name

of.

- (i) Iso butyl chloride
- (ii) Tert amyl bromide
- (iii) Sec-butyl chloride

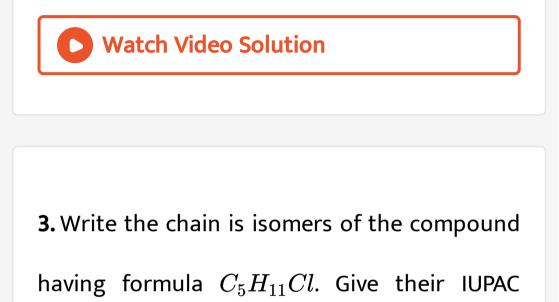
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Write structures of the following compounds.

(i) 2. Chloro - 3 - methylpentane

(ii) 1. Chloro - 4-ethylecyclohexane

(iii) 4. tert. Butyl - 3 - iodoheptane



names also.



Topic 1 Some Important Terms And Definitions Long Answer Type Questons li **1.** Write structures of the following compounds.

(i) 2. Chloro - 3 - methylpentane

(ii) 1. Chloro - 4-ethylecyclohexane

(iii) 4. tert. Butyl - 3 - iodoheptane

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Topic2PropertiesOfHaloarenesAndHaloalkanesVery ShortAnswerTypeQuestions

1. Name the organic compound formed when

chlorobenzene is treated with sodium in dry ether.



2. Name the alkene formed when ethyl bromide is heated with alcoholic KOH.



3. Write the general equation for the formation of Grignand reagent. Watch Video Solution Name the reagent used in the 4. dehydrohalogenation of haloalkanes. Watch Video Solution

5. Name the gas liberated when bromo ethane

is heated with alcoholic potash.



6. Name the Following reaction.

 $H_3C-Br+AgF
ightarrow H_3C-F+AgBr$



7. Name the main product formed when bromoethane is treated with sodium metal in dry ether



Topic2PropertiesOfHaloarenesAndHaloalkanesShort Answer Type Questions

1. Explain Williamson's reaction. Write the

general equation.





2. Write equations for the steps in $S_N 1$ mechanism of conversion of tertiary butyl bromide into tertiary butyl alcohol.

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3. Write mechanism involved in the reaction

between tert. butly bromide and aqueous KOH.

4. Write the equations for the rate determining step Involved in the mechanism of the hydrolysis of tert, butyl bromide.

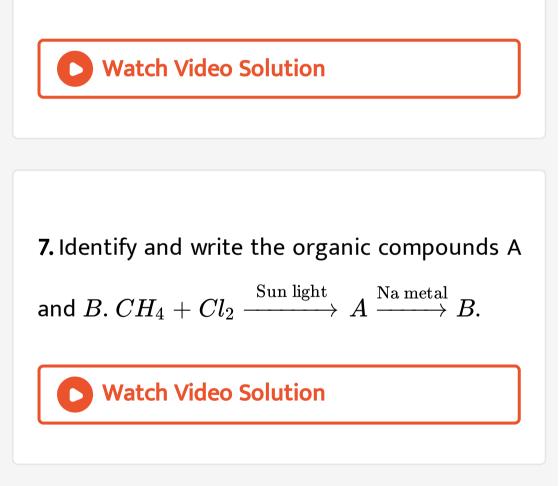


5. Explain the reaction between methyl iodide

and magnesium metal.



6. How is ethyl bromide converted into ethylbenzene by Friedel - Crafts reactions ? Give the equations.

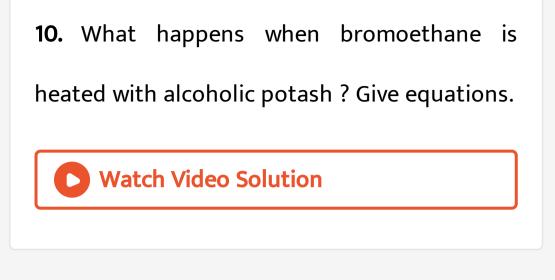


8. (a) Explain SN¹ mechanism by taking tertiary butyl bromide as an example.
(b) What is Wurtz Fitting's reaction? Give an example.

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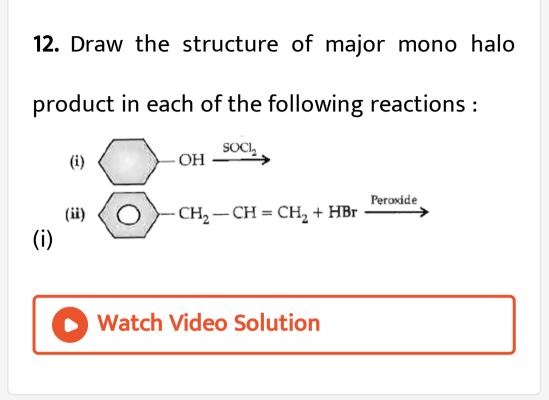
9. What is wurts-Fittirg reaction ? Give general

equation.



11. Give two differences between S_N-1 and

 S_N-2 mechainsm.



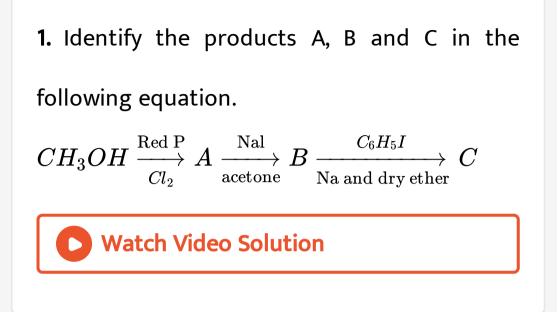
- **13.** Do the following conversions :
- (i) Methyl bromide to acetone
- (ii) Benzyl chloride to 2-phenylacetic acid.

14. Give chemical tests to distinguish betweenthe following pairs of compounds :(i) Benzyl chloride and chlorobenzene

(ii) Chloroform and carbon tetrachloride.

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Topic2PropertiesOfHaloarenesAndHaloalkanesLongAnswerTypeQuestionsI

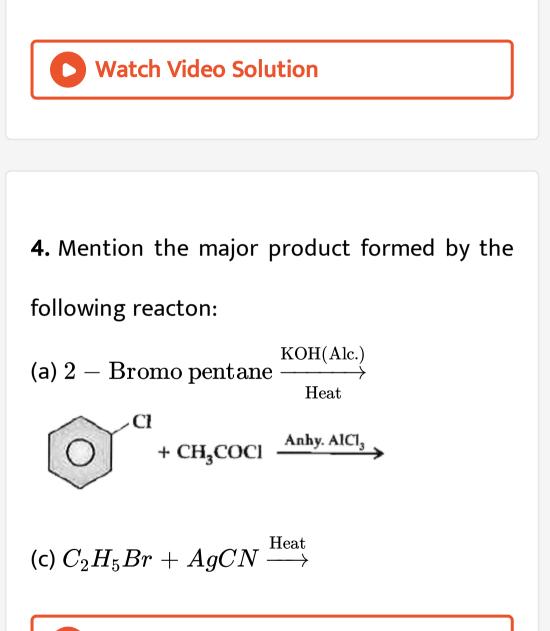


2. Halo arenes are less reactive towards nucleophilic substitution reaction than halo

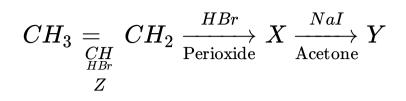
alkanes. Give reason.







5. Compete the following reaction.



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6. Identify A and B in the following :

$$Br + Mg \xrightarrow{Anhyd.} A \xrightarrow{H_2O/H^+} B$$

- **1.** Do the following conversions :
- (i) Toluene to benzyl alcohol
- (ii) Ethanol to but 2 yne
- (iii) Ethanol to propane nitrile
- (iv) Propane to propan-1-ol
- (v) Ethyl chloride to propanoic acid.

