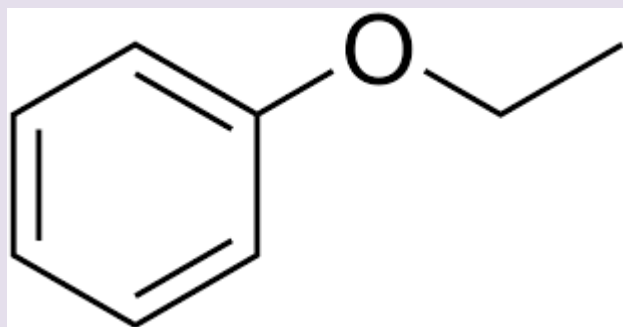


HOTS QUESTIONS

1. Write the metamers of



2. Draw the geometrical isomers of the following:
- 1-bromo-3-chlorocyclobutane
 - 3,4-dimethylhept-3-ene
 - 1,3-dibromocyclobutane
 - 1,4-dimethylcyclohexane
3. Write structural formula for all the compounds having molecular formula C_5H_{10} .
4. Which one more stable: F_3C^+ or F_3C-C^+ carbocation? And why?
5. Which continuous hydrocarbon chain is isomeric with 2-methyl-3-ethyl hexane?
6. Why is an organic compound fused with sodium for testing nitrogen, sulphur, phosphorus etc.?
7. A mixture contains two compounds A and B. The solubilities of A and B in water near its boiling point are 30g/100ml and 10g/100ml respectively. How will you separate A and B from this mixture?
8. Lassaigne's test is not shown by diazonium salts, though it is containing nitrogen. Why?
9. What is the cause of geometrical isomerism in alkenes?
10. Why is it necessary to use acetic acid and not hydrochloric acid for acidification of sodium extract for testing sulphur by lead acetate test?

CLASS: XI

SUBJECT: CHEMISTRY

CHAPTER: 12 (ORGANIC CHEMISTRY: SOME BASIC PRINCIPLES AND TECHNIQUES)

BY Priyanka Paul