
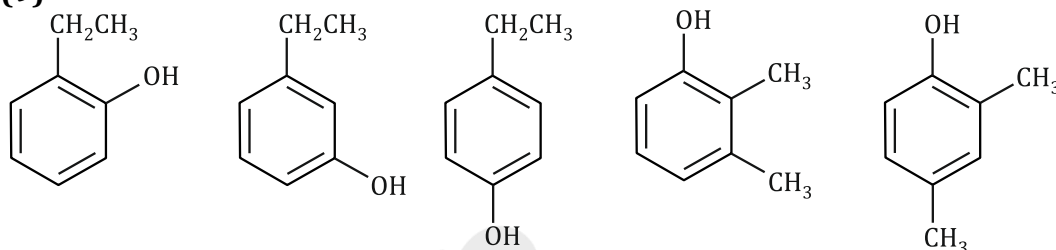


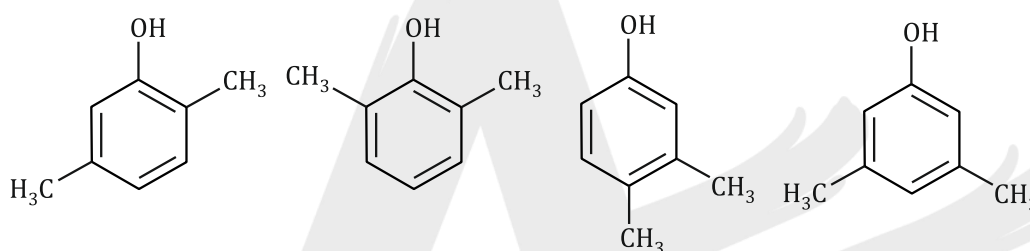
Link to View Video Solution:  [Click Here](#)

**Q.1** Total number of benzenoid phenolic structural isomers are possible for the formula  $C_8H_{10}O$

**Ans. (9)**

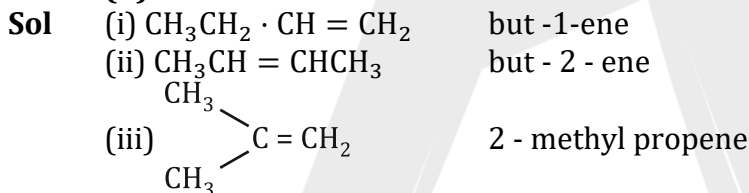


**Sol**



**Q.2** How many total open chain structural isomers are possible for  $C_4H_8$

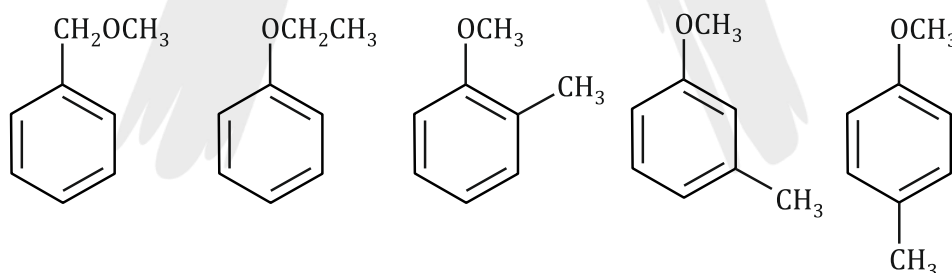
**Ans. (3)**



**Q.3** Total number of benzenoid metamers are possible of molecular formula  $C_8H_{10}O$

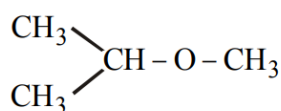
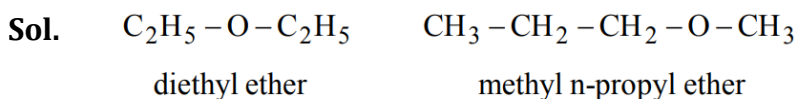
**Ans (5)**

**Sol**




**Q.4** Total number of possible metamers of  $C_4H_{10}O$

**Ans (3)**



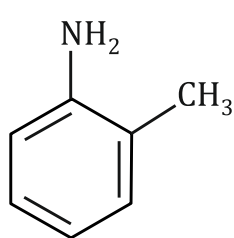
methyl iso-propyl ether

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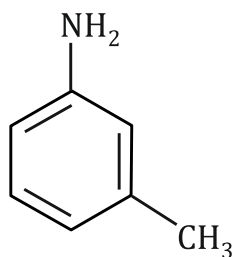
**Q.5** Total number of benzenoid structural isomers are possible of  $C_7H_9N$

**Ans.** (5)

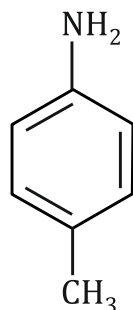
**Sol.**



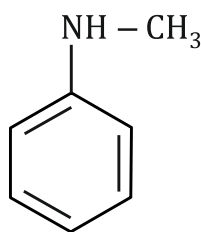
o - Toluidine



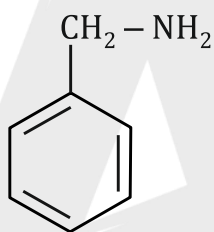
m - Toluidine



p - Toluidine



N - Methyl aniline

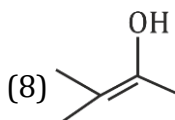
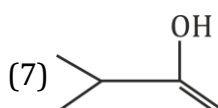
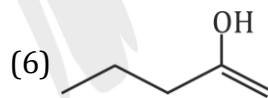
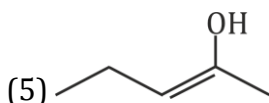
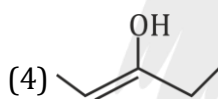
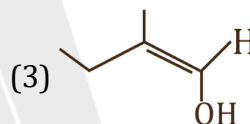
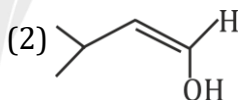
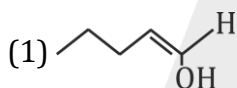


Benzylamine

**Q.6** Total number of possible structural isomers of Enol-form having molecular formula  $C_5H_{10}O$ , which can show Tautomerism

**Ans.** (8)

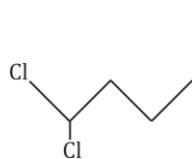
**Sol**



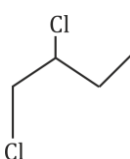
**Q.7** Total number of possible structural isomers of molecular formula  $C_4H_8Cl_2$

**Ans** 9

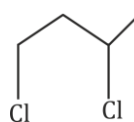
**Sol.** There are 9 isomers  $C_4H_8Cl_2$  as shown is below figure.




,1,1-dichlorobutane

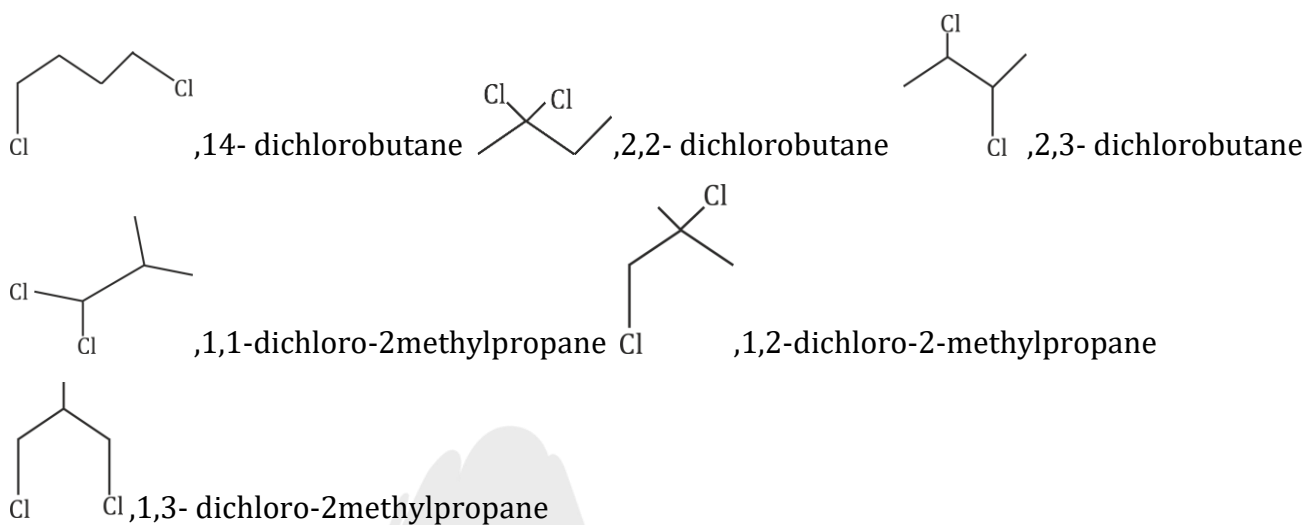


,1,2- dichlorobutane



,1,3- dichlorobutane

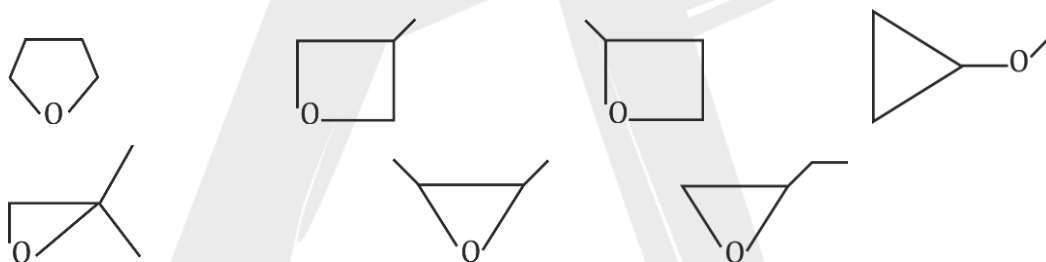
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**Q.8** Total number of structural isomers of cyclic ethers having molecular formula  $C_4H_8O$

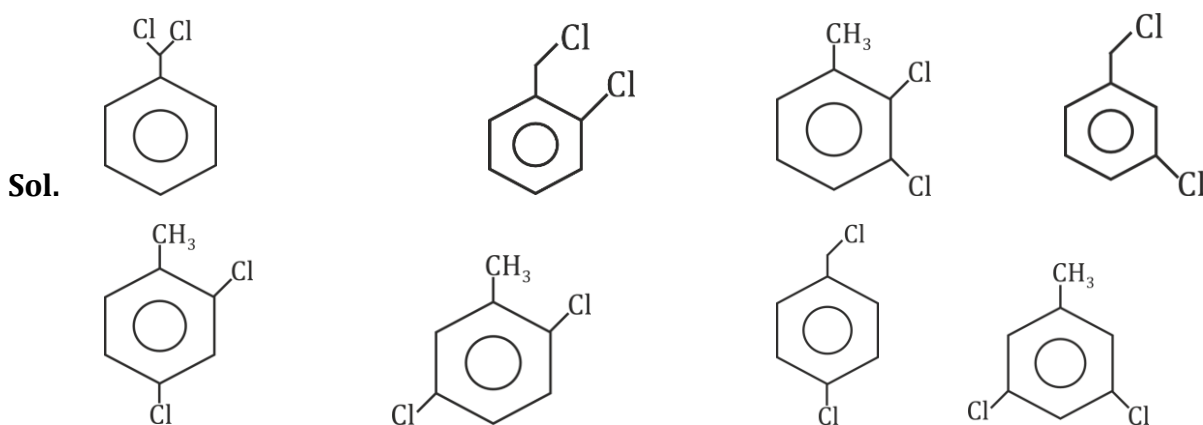
**Ans** 7

**Sol.** Total number of structural isomers of molecular formula  $C_4H_8O$  having only cyclic ethers. are

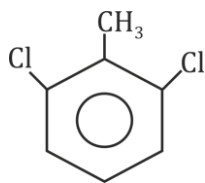
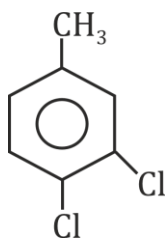


**9.** Total number of Benzenoid aromatic isomers of molecular formula  $C_7H_6Cl_2$

**Ans.** 10

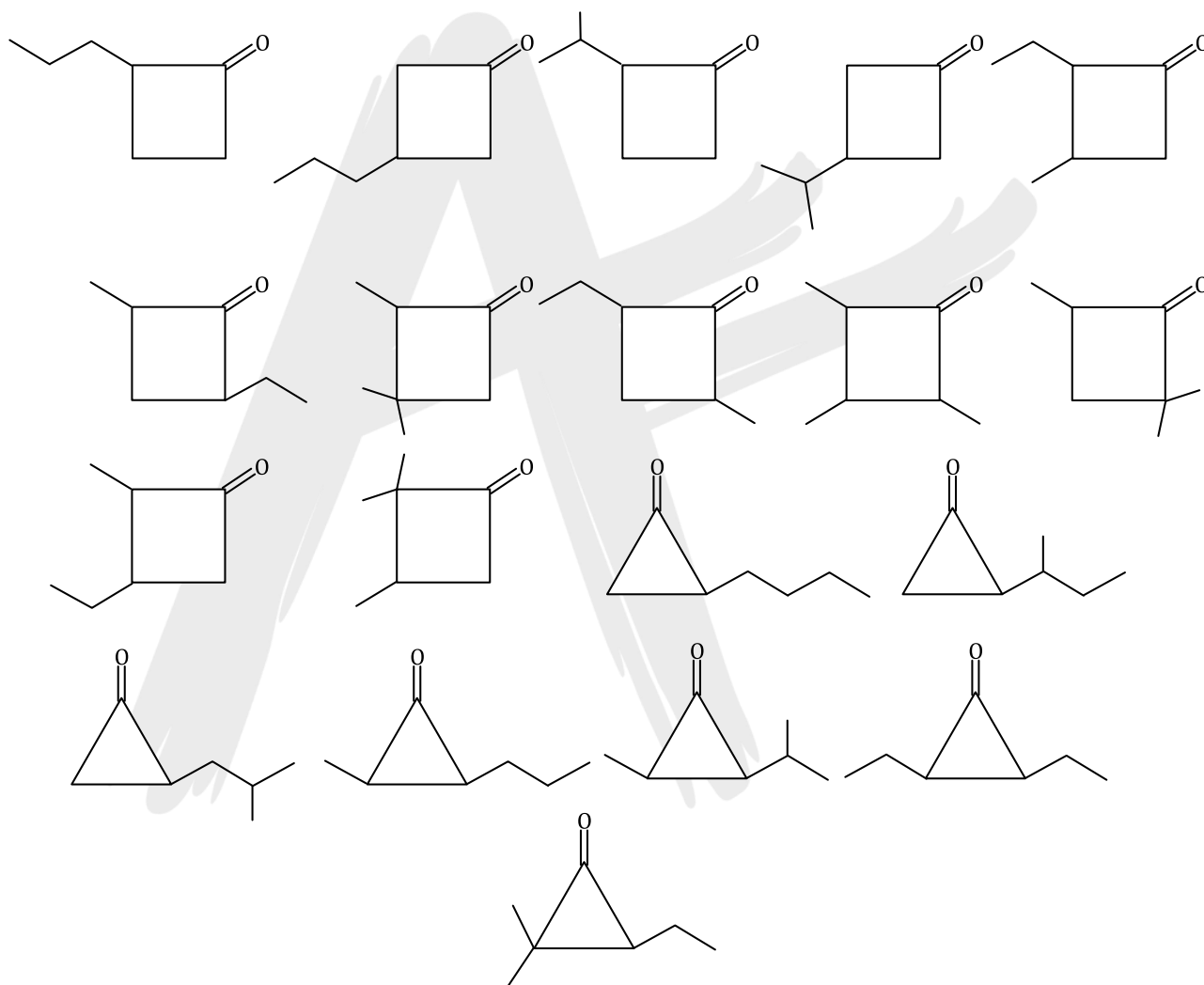


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10. Total number of structural Isomers of cyclic ketone having four and there membered ring which can show tautomerism of molecular formula  $C_7H_{12}O$

Ans. 9



Sol.