

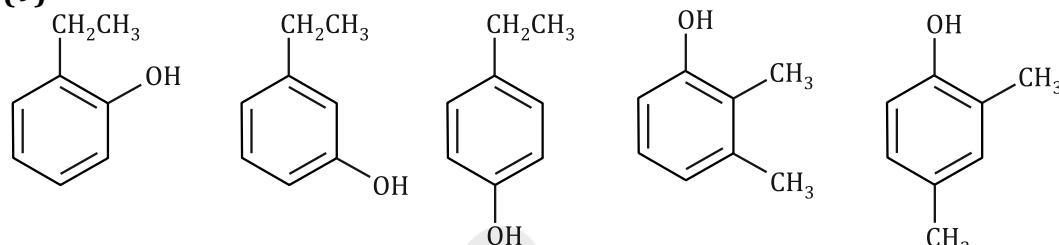


SOLUTION

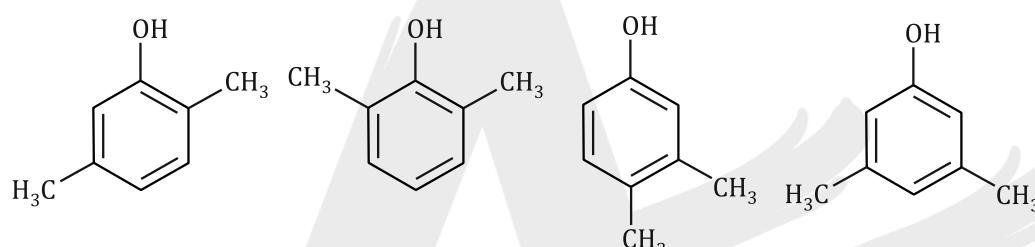
DPP-03

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Q.1 Total number of benzenoid phenolic structural isomers are possible for the formula C₈H₁₀O
Ans. (9)



Sol



Q.2 How many total open chain structural isomers are possible for C₄H₈?

Ans. (3)

Sol (i) $\text{CH}_3\text{CH}_2 \cdot \text{CH} = \text{CH}_2$

but -1-ene

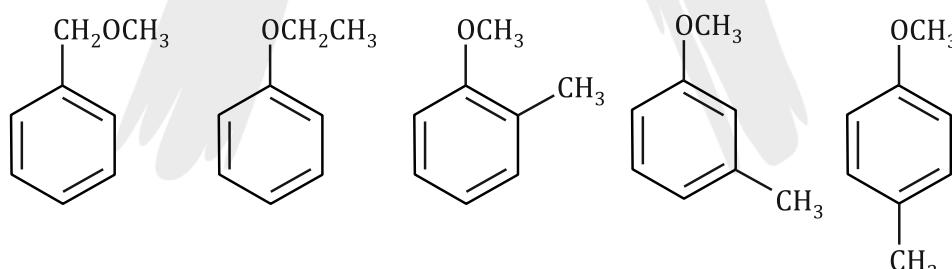
(iii) $\begin{array}{c} \text{CH}_3\text{CH}_2 - \text{CH}_2 \\ | \\ \text{CH}_3\text{CH} = \text{CHCH}_3 \\ | \\ \text{CH}_3 \end{array}$

2 - methyl propene

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

Total no.

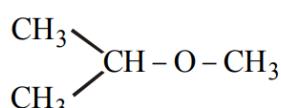
Sol



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

Ans (3)

Sol. $\text{C}_2\text{H}_5 - \text{O} - \text{C}_2\text{H}_5$ $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{CH}_3$
 diethyl ether methyl n-propyl ether



methyl iso-propyl ether

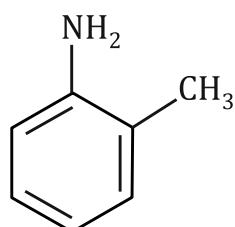


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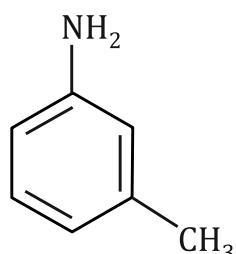
Q.5 Total number of benzenoid structural isomers are possible of C_7H_9N

Ans. (5)

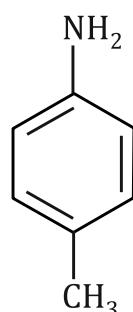
Sol.



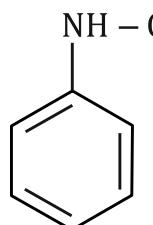
o - Toluidine



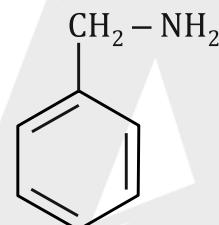
m - Toluidine



p - Toluidine



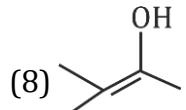
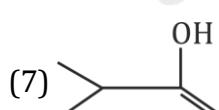
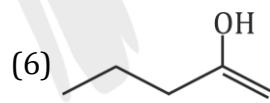
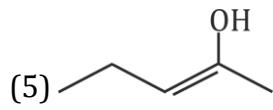
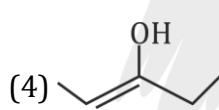
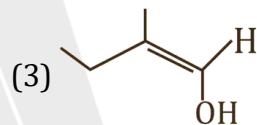
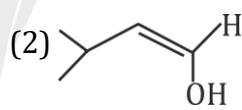
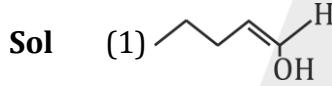
N - Methyl aniline



Benzylamine

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

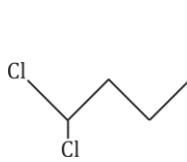
Ans. (8)



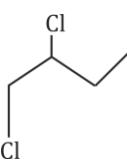
Q.7 Total number of possible structural isomers of molecular formula $C_4H_8Cl_2$

Ans 9

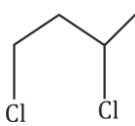
Sol. There are 9 isomers $C_4H_8Cl_2$ as shown in below figure.



,1,1-dichlorobutane



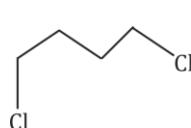
,1,2- dichlorobutane



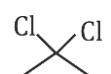
,1,3- dichlorobutane



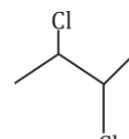
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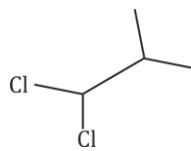
,1,4- dichlorobutane



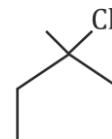
,2,2- dichlorobutane



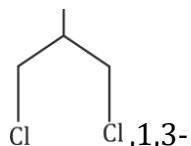
,2,3- dichlorobutane



,1,1-dichloro-2methylpropane



,1,2-dichloro-2-methylpropane

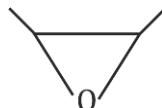
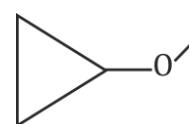
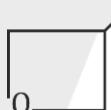
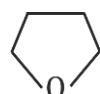


,1,3- dichloro-2methylpropane

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

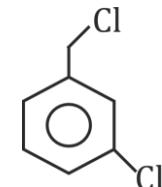
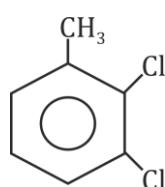
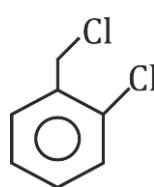
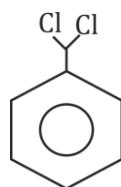
Ans 7

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

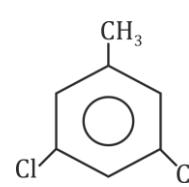
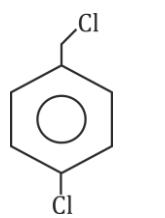
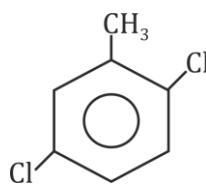
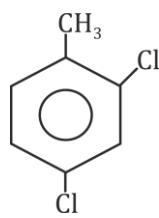


9. Total number of Benzenoid aromatic isomers of molecular formula $C_7H_6Cl_2$

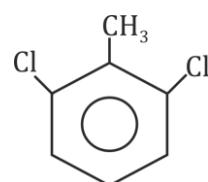
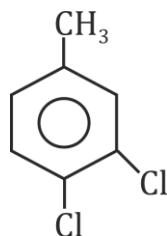
Ans. 10



Sol.

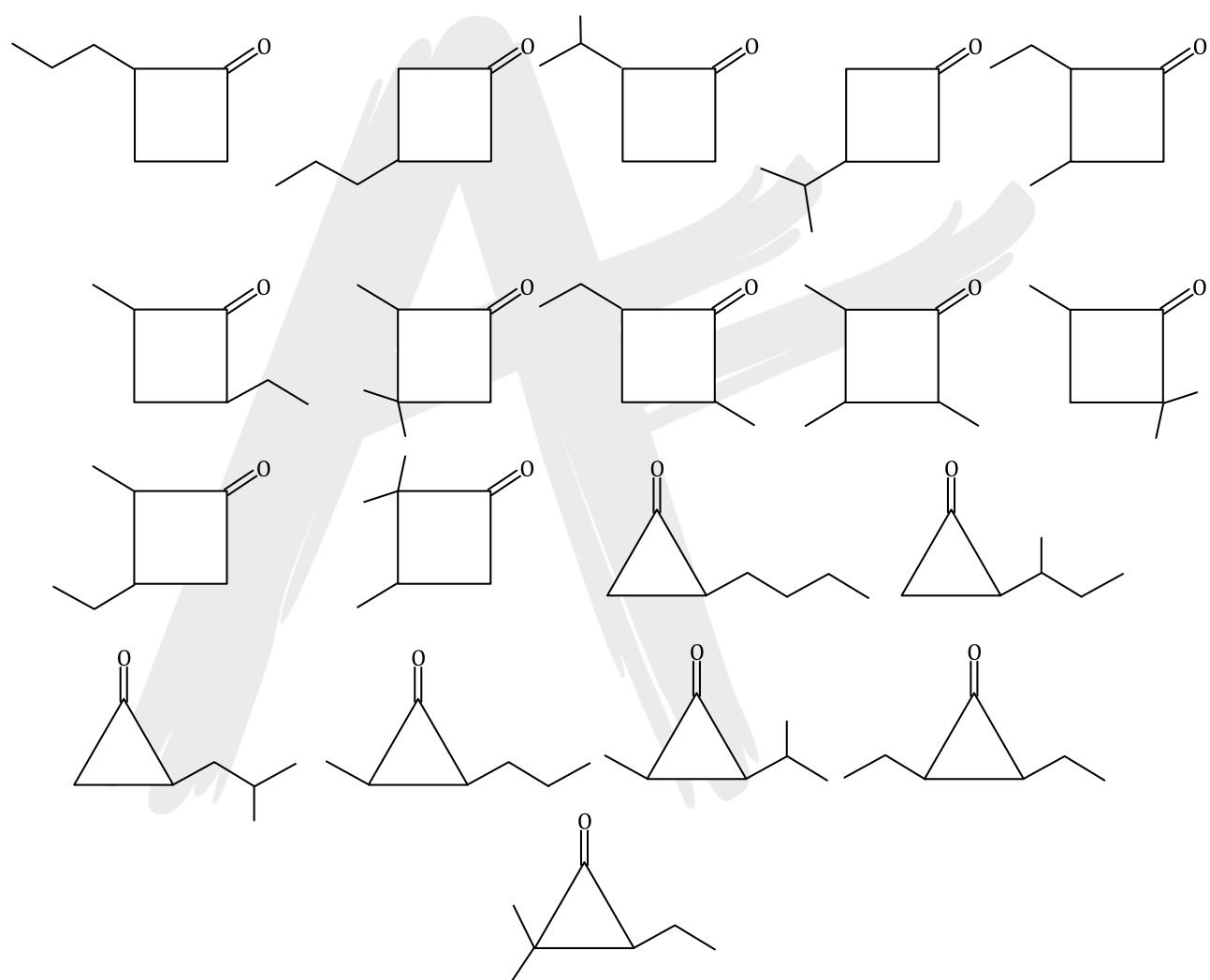


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10. Total number of structural Isomers of cyclic ketone having four and there membered ring which can show tautomerism of molecular formula C₇H₁₂O

Ans. 9



Sol.