

Answer all the questions below as fully as you can then check your answers

- 1. What is the difference between benzene and a phenyl group?
- 2. What are arenes?
- 3. Name the following aromatic compounds:

- 4. Draw 3 isomers of chloromethylbenzene.
- 5. Draw out the following molecules:
- a. 1-bromo-3-chlorobenzene.
- b. 3-nitrotoluene.

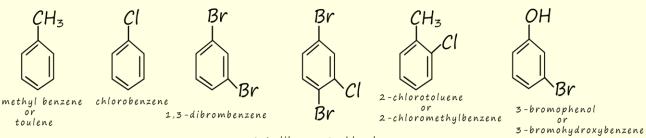
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- c. 3-hydroxyphenol
- d. 2,4-dichlorophenol
- e. 2-bromophenylamine

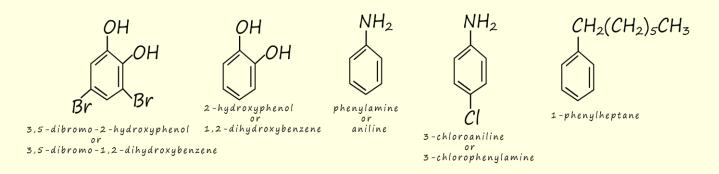
Answers

- 1. What is the difference between benzene and a phenyl group?

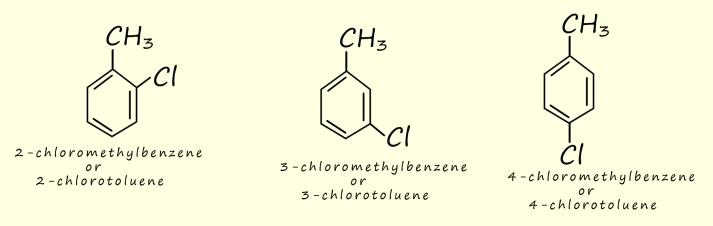
 Benzene has the molecular formula C_6H_5 , a phenyl group is a benzene molecule with one hydrogen atom removed, its molecular formula is C_6H_5
- What are arenes?
 Benzene rings with alkyl substituents attached.
- 3. Name the following aromatic compounds:



1,4-dibromo-3-chlorobenzene



4. Draw 3 isomers of chloromethylbenzene.



- 5. Draw out the following molecules:
- a. 1-bromo-3-chlorobenzene.
- b. 3-nitrotoluene.
- c. 3-hydroxyphenol
- d. 2,4-dichlorophenol
- e. 2-bromophenylamine

Br
$$CH_3$$
 OH OH CI NH_2 Br CI NO_2 3 -nitrotoluene S -hydroxyphenol S -hydroxyphenol S -hydroxyphenol S -hydroxyphenol S -hydroxyphenol S -hydroxyphenol