Aromatics:

These compounds usually have a pleasant aroma.

Some examples

wintergreen vanilla cinnamon

*This class of aromatic organic compounds share a common structure, the benzene ring, C₆H₆.

BENZENE:

- -colorless, flammable liquid
- carcinogenic
- -important non-polar solvent: if it doesn't dissolve in water, it will probably dissolve in benzene.

- -non-polar
- -all C-C bonds the same length (140pm) between a double (134pm) and single bond (146pm) bond length
- -exhibits resonance
- -very unreactive

Naming:

Name the substituent followed by benzene is only one functional group.



For more than one functional group:

- 1. Number the carbon atoms to give them the lowest numbers possible
- 2. Determine the name of the substituents.
- 3. Put the name together and alphabetize the branch names.
- 4. When there are two functional groups ...

5. If there is a large group attached to the benzene ring, then the benzene becomes the functional group. A benzene group is called "phenyl".

