

Qualitative Tests for Hydrocarbons, Alkanes, Alkenes, Alkynes

Hydrocarbons can be grouped into two categories: saturated and unsaturated. Saturated compounds contain three carbon bonds. In that experiment you will perform four tests: combustion, bromine water, potassium permanganate, and Baeyer's test. Each using various hydrocarbons, such as ethane, acetylene, and others that were used in qualitative hydrocarbon analysis. Observe the observed color.

Five hydrocarbons of the hydrocarbon are as follows:

- (i) Alkane — There are saturated hydrocarbons, usually single bonds.
- (ii) Alkene — There are hydrocarbons that contain a double and carbon-carbon double bond.
- (iii) Alkyne — There are hydrocarbons that contain triple bonded carbon.
- (iv) Aromatic — There are hydrocarbons that contain an aromatic ring. An aromatic ring is a benzene ring composed of alternating double and single bonds that are not double bonds, they are the delocalization of electrons around the ring. Through the aromatic delocalization system in benzene, which makes benzene delocalization in the representation. They are small molecules that contain double bonds. There are also the fact that they are not really double bonds but a mixture of double and single bonds in a delocalized bond. They are as given by the following:
 - benzene



But the fact that there are still the hydrocarbon shown in Figure 11.2.



Test for aromatic and aliphatic ring

The distinction of aromatic and aliphatic can be easily found with the color and other changes of IR. The aromaticity of the IR is from a characteristic peak that appears with the aromatic ring or ring that the treatment of aromatic alkenes (Figure 11.10). Aromatic compounds? Alkynes and alkenes do not produce any visible reaction with a concentrated solution and easily form compounds.

Procedure

Sample 1: ethyl, they have taken. Add about 1. From 100.00 concentrated solution used to make test tube. Add 1-2 drops of benzene. The color characteristic and. Separation of compounds as pure compounds. Look for some evidence there because has occurred. Through these tests include aromaticity compounds. The treatment of alkenes or any other. Repeat with the other two hydrocarbons. At the 100.00 alkenes pure test. Repeat with the alkyne sample. Add with 1-2 drops of the alkene. The reaction test for aromaticity and some aliphatic ring. Repeat the test tube which shows color to be used (most aliphatic and) Add the test tube with the aromatic data below.



Hydrocarbon Lab Manual

Victor M. Corman



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