

Qualitative Tests for Hydrocarbons, Alkanes, Alkenes, Alkynes

Hydrocarbons can be grouped into two structural classes and sample chemical tests can be used to distinguish between these classes. In this experiment you will perform four tests: combustion, bromine water, potassium permanganate, and Baeyer's test. Each using various hydrocarbons, and their derivatives that were used in experiments performed prior to this experiment to observe color.

Five hydrocarbons of the hydrocarbon are as follows:

- Alkanes** – There are saturated hydrocarbons, usually single bonds.
- Alkenes** – There are hydrocarbons that contain at least one carbon-carbon double bond.
- Alkynes** – There are hydrocarbons that contain only bonded carbon.
- Aromatics** – There are hydrocarbons that contain an aromatic ring. An aromatic ring is a structure composed of alternating double and single bonds that is generally stable due to the delocalization of electrons around the ring. Through the aromatic stabilization system is less likely to be attacked by other reagents as the unsaturated. They are small molecules that contain double bonds. There are also the fact that they are not easily broken down by a reaction of double bond rings. Aromatic is a very specific term. There are also some of the following properties given by hydrocarbons.



Put the ball and stick model on display, the hydrocarbon display as Figure 11.2.



Test for aromatic and aliphatic class

The distinction of aromatic and aliphatic can be easily found without color and other concepts of IR. The aromaticity is the 4n+2 rule, which is a quantum mechanical rule that describes the stability of aromatic systems (Figure 11.3). Aromatic systems are usually 6, 10, 14, 18, 22, 26, 30, 34, 38, 42, 46, 50, 54, 58, 62, 66, 70, 74, 78, 82, 86, 90, 94, 98, 102, 106, 110, 114, 118, 122, 126, 130, 134, 138, 142, 146, 150, 154, 158, 162, 166, 170, 174, 178, 182, 186, 190, 194, 198, 202, 206, 210, 214, 218, 222, 226, 230, 234, 238, 242, 246, 250, 254, 258, 262, 266, 270, 274, 278, 282, 286, 290, 294, 298, 302, 306, 310, 314, 318, 322, 326, 330, 334, 338, 342, 346, 350, 354, 358, 362, 366, 370, 374, 378, 382, 386, 390, 394, 398, 402, 406, 410, 414, 418, 422, 426, 430, 434, 438, 442, 446, 450, 454, 458, 462, 466, 470, 474, 478, 482, 486, 490, 494, 498, 502, 506, 510, 514, 518, 522, 526, 530, 534, 538, 542, 546, 550, 554, 558, 562, 566, 570, 574, 578, 582, 586, 590, 594, 598, 602, 606, 610, 614, 618, 622, 626, 630, 634, 638, 642, 646, 650, 654, 658, 662, 666, 670, 674, 678, 682, 686, 690, 694, 698, 702, 706, 710, 714, 718, 722, 726, 730, 734, 738, 742, 746, 750, 754, 758, 762, 766, 770, 774, 778, 782, 786, 790, 794, 798, 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