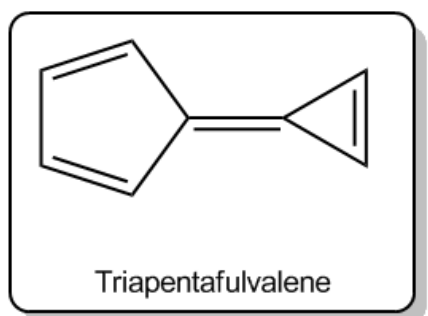


CONCEPT: IONIZATION OF AROMATICS

Double bonds can be viewed as a loose pair of electrons that can undergo resonance movement and ionization if that helps to create an aromatic compound.

Resonance of Fulvalenes:

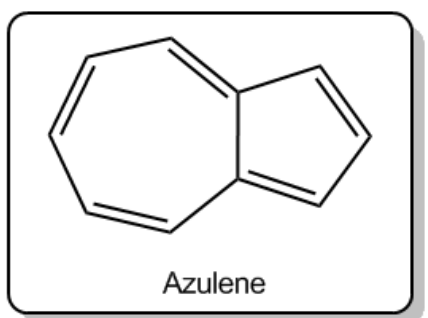
Fulvalenes are hydrocarbons composed of two fully conjugated rings joined by an *exocyclic* double bond.



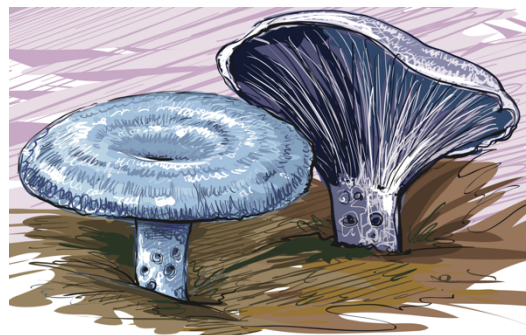
- Which atom would you expect to most readily react with an electrophile (E^+)?
- Does this molecule possess a net dipole? If so, indicate the direction.

Resonance of Azulene:

Azulene is a polycyclic aromatic molecule with a *distinctive blue color*.



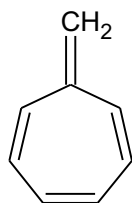
- Which atom would you expect to most readily react with an electrophile (E^+)?
- Does this molecule possess a net dipole? If so, indicate the direction.



lactarius indigo

CONCEPT: IONIZATION OF AROMATICS

PRACTICE: Which carbon in the following compound is most likely to react with an electrophile?



(heptafulvene)