

Bond length and bond angle

[CHM102] The rapid decolouration of bromine is a test method which determined the presence of what?

$\text{C}=\text{C}$ bond

[CHM102] Which of these shows how a sigma $\text{C}-\text{C}$ bond is formed.
edge on overlaps of pure S and P orbitals

[CHM102] Which of these shows how a pi $\text{C}=\text{C}$ bond is formed.
sideway overlap of p orbitals

[CHM102] Explain why the bonds formed in sp^3 hybrid orbitals are stronger and stable compare to the bonds formed by using pure atomic orbitals?

In sp^3 hybrid orbital, the electron density is concentrated in one direction leading to greater overlap.

[CHM102] The process by which alkyl halides are converted to alkenes in the presence of strong base is called?
Dehydrogenation

[CHM102] Which of these statements is correct?
the electron density in sigma $\text{C}-\text{C}$ bond is maximum along the internuclear axis

[CHM102] When molecules are formed it can be deduced that the following took place except _____.
There was bond elongation

[CHM102] The formula CH_3CH_3 represents the _____ for ethane.
Condense structure

[CHM102] The name of the compound whose structure appeared here
 $\text{CH}_3(\text{CH}_2)_6\text{CH}_3$ is ____.
Octane

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