

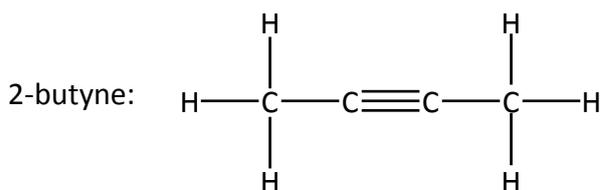
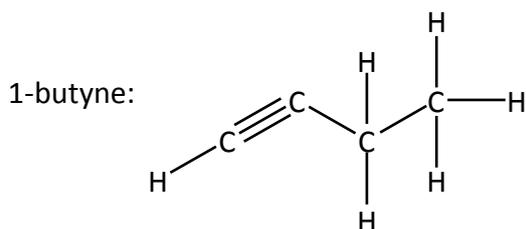
Answer on Question #43826 - Chemistry - Inorganic Chemistry

Question:

How are 1-butyne and 2-butyne similar to each other?

Solution:

1-butyne and 2-butyne both belong to alkyne hydrocarbons. These compounds have the same molecular formula C_4H_6 , but their structures are different. Both of these compounds have triple bond carbon-carbon, but the location of triple bond is different. So, 1-butyne and 2-butyne are geometric isomers with position isomerism.



The difference in structures of isomers causes differences in physical properties – 1-butyne is gas at standard conditions, while 2-butyne is liquid; and 1-butyne is more reactive (even extremely flammable) in chemical reactions than 2-butyne.

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