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## Tertiary carbon is bonded directly to

February 26, 2014 Leah4sci As a mentor to organic chemistry, one of the first and more challenging topics my students need is how to quickly recognize primary, secondary and tertiary carbon atoms in a molecule. There are several ways to do this. I'll explain to them then show you the trick you can apply to get your answer quickly on the exam. I call it a pencil trick. After reading, be sure to watch the step-by-step video tutorial at the bottom of this page. A review of primary secondary and tertiary Primary atoms of secondary or tertiary carbon refers to the amount of carbon directly attached to the carbon in question. In other words: Primary carbon can be written as 1° (#1 of degree) has one carbon attached to this carbon atom. A secondary carbon written as 2° (#2 a degree symbol) is carbon attached to two other carbons. Tertiary carbon written as 3° (#3 of degree) is a carbon attached to three other carbons. And quaternary carbon, written as 4° (#4 a degree symbol) is a carbon attached to four other carbons. I want you to recognize that quaternary carbon is only attached to carbon. This is because having four carbon links means carbon already has its full octet. But primary, secondary and tertiary carbon will have other atoms attached. These atoms can include hydrogen, halogens (F, Cl, Br, I), oxygen, nitrogen and so on. Degree of replacement The degree of replacement means how much carbon is attached to the carbon atom in question. The answer will be something like primary, secondary or tertiary depending on what you have. When you have a molecule written in Lewis's structure, it's easy to see, but when a molecule is written in a string structure, it can become complex. That's where the pencil trick comes in play Here's how to quickly recognize if the carbon atom is primary, secondary, tertiary or quaternary with a pencil trick. Identify the carbon in question and place a pencil on this carbon atom. Then learn how many lines come from a carbon atom that attach to another carbon - that is, the line does not lead to hydrogen, oxygen or halogen. The number of lines that flow from this carbon represents a degree of replacement. Look at the image above. In the image, I highlighted one carbon atom in yellow, which, if you put a pencil on it, has three lines emanating from it, making it tertiary carbon. If you put a pencil on another carbon atom highlighted in green, you'll see two lines stemming from it, making it secondary carbon. Replacement of alcohol and halogen When applying to the degree of replacement of halogen or alcohol, you do not halogen or alcohol itself, but rather rather carbon holding it. So, for example, if you look at the bromine in the molecule drawn here, you'll find that the bromine is attached to a single carbon. But this bromine is not a major halogen, even if it is attached to a single carbon. You have to look at carbon instead. Do a pencil trick and see that this carbon is attached to the other two carbon. Since carbon is secondary, so is bromine. The same goes for alcohol. For example, if alcohol is on a tertiary carbon, then alcohol is considered a tertiary; not because it is attached to one carbon, but because the carbon holding alcohol is attached to three other carbon. Amines (Nitrogen) are classified differently by the degree of replacement for amines slightly different from alcohol and halogen, because in this case we are actually looking at a nitrogen atom. The main amine is one that has nitrogen or group NH<sub>2</sub> directly attached to a single carbon. We don't care if it's primary, secondary or tertiary carbon because it's the nitrogen we're considering. Secondary amine is an NH group attached to two other carbons. Tertiary amine is nitrogen attached to three other carbon. Sometimes you will see ammonium salt, which is a positive nitrogen attached to four different carbons. The reason I said NH<sub>2</sub>, NH and N for primary, secondary and tertiary is because we assume our amines are neutral. If nitrogen can have a total of three bonds and one lone pair, we expect that when nitrogen is tied to one carbon, it will have two hydrogens. When connecting nitrogen to two carbons it will have one hydrogen. When nitrogen is attached to three carbons, it will not have hydrogen. That's why ammonium is different, positive nitrogen has 4 connections and no single pairs. You can actually apply a pencil trick as well. Just put a pencil on the nitrogen and see how much carbon flows from it. (Watch on YouTube: Pencil Trick. Click copy for transcription.) Do you see a pencil trick simplifying your life? I'd love to read your reviews in the comments below Illustrated by a glossary of organic chemistry Related terms: methyl carbon, primary carbon, secondary carbon, carbon quaternary, tertiary hydrogen, tertiary carbonyl, tertiary alcohol, tertiary amide, tertiary amine, tertiary alkyl halide, tertiary haloalkane, larger Wikipedia entry structure Back to the Goals glossary index Once this section is complete, you should be able to recognize and name any alkyl group, which can be considered formed by removing the hydrogen terminal. from direct chain alkan containing ten or less carbon atoms. explain what is meant by the primary, secondary, tertiary or quaternary carbon atom. represent different types of organic compounds using the R symbol to represent any alkyl group. Key Make sure that you can determine, use in context, the key terms below. group alkyl group methyl isopropyl group sec-butyl group isopropyl group tert-butyl group primary carbon secondary carbon tertiary carbon quaternary study Notes Differences between primary, secondary, tertiary and quaternary carbon atoms are explained in the next debate. A convenient way to remember this classification scheme is to remember that the primary carbon atom is attached directly to just one other carbon atom, a secondary carbon atom attached directly to two carbon atoms and so on. The IUPAC system requires first that we have names for simple unbranched chains, as noted above, and secondly that we have names for simple alkyl

groups that can be attached to chains. For examples of some common alquil groups, see the following table. Note that the ane suffix is replaced by yl in naming groups. The R symbol is used to indicate a common (indefinite) group of grasslands. Table 




{\displaystyle }

: Alkyl NameGroup CH3–C2H5–CH3CH2CH2–(CH3)2CH–CH3CH2CH2–(CH3)2CH2–CH3CH2CH (CH3)–(CH3)3C–R – The name methyl Etil Propil Isopropil Butyl Isogutyl sec-Butyl ter-Butyl Alkyl alcanes can be described according to the general formula CnH2n+2. The alquil group is formed by removing a single hydrogen from the alcan chain and is described using the formula CnH2n+1. Removing this hydrogen causes the stem to change from -ane to -yl. Take a look at the following examples. The same concept can be applied to any of the direct chain alcan names listed in the table 




{\displaystyle }

. Table 




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: Straight Chain Alkan name Molecular Formula Compressed Structural Formulas Methane CH4 CH4 Ethan C2H6 CH3CH3 Propane C3H8 CH3CH2CH3 Bhutan C4H10 CH3 (CH2)10 2CH3 Pentan C5H12 CH3(CH2)3CH3 Hexagonal C6H14 CH3 (CH2)4CH3 Goeptan C7H16 CH3 (CH2)5CH3 Octane C8H18 CH3 (CH2)5CH3 Octane C8H18 CH3 (CH2)5CH3 Octane C8H18 CH3 (CH2)5 CH2)5 CH2)6CH3 Neanne C9H20 CH3(CH2)7CH3 Decania C10H22 CH3 (CH2)8CH3 Indefinite C11H24 CH3(CH2)9CH3 Dodecane C12H CH3 (CH2)10CH3 Tridecane C13H28 CH3(CH2)11CH3 Tetradecan C14H30 CH3(CH2)12CH3 Pentadecan C15H32 CH3( CH2) 13CH3 Hexagon C16H34 CH3(CH2)14CH3 Heptadecan C17H36 CH3(CH2)15CH3 Octadecane C18H38 CH3(CH 2)16CH3 Nonadecane C19H40 CH3(CH2)17CH3 Eicosane C20H42 CH3(CH2)18CH3 Carbon have a special terminology to describe, how much other carbon they are attached to. Primary carbon (1o) attached to one other atom C Secondary carbon (2o) attached to two other tertiary carbon C (3o) attached to three other C's Quaternary carbon (4o) attached to four C's 




{\Example{PageIndex{1}}}

 You will find that hydrogen atoms are also classified as follows. The hydrogen atom attached to the primary carbon atom is called primary hydrogen; Thus, isobutan has nine primary water and one tertiary hydrogen. Primary hydrogen attached to carbon associated with one other atom C Secondary hydrogen (2o) attached to carbon to two other tertiary water C (3o) attached to carbon associated with three other examples of C 




{\PageIndex{2}}}

 Q3.3.1 Consider the following molecule. How much carbon are in the longest chain? Find primary and quanternium carbon and mark the edyl group. S3.3.1 A = 4° Carbon B = Etyl Group C = 1° Carbon The longest chain of 10 carbon long contributors One of the important properties of carbon is its tetravalence. Carbon is a strict follower of the otte, which means it needs a maximum of 8 electrons to form persistent compounds. Since the carbon atom has 4 valence electrons, it can form up to 4 connections with different elements. Part of the reason millions of carbon compounds exist is its ability to form very stable links with another carbon atom. The carbon atom in the organic compound is labeled or classified based on the number of bonds and type of atoms attached to it. In this post, we will specifically focus on carbon classification based on the number of other carbon atoms attached to it. Carbon can be classified as primary, secondary, tertiary or tertiary depending on the amount of carbon atoms it is associated with. This classification applies only to saturated carbon. The classifications are as follows: Primary Carbon (1°) – Carbon Attached to One Other Carbon Secondary Carbon (2°) – Carbon Attached to Two Other Carbon Tertiary Carbon (3°) – Carbon Attached to Three Other Carbon 3-Methylpentan If we look at the example above 3-methylpant, C 1 attached to three hydrogen atoms and only one atom This means that based on the classification described above, C1 is the main carbon. On the other hand, C2 is connected to only 2 hydrogen atoms and 2 other carbon atoms. At the same time, C2 is considered a secondary carbon. Finally, C3 is associated with only one hydrogen atom and three other carbon atoms. In this case, C3 is an example of tertiary carbon. Using the classification above, we will know that C5 and C6 are primary carbon and C4 is secondary carbon. This classification scheme is important because it is also used in the classification of organic compounds with different functional groups. This specifically refers to alcohols, amines and alkyla khalids. It is also used in the classification of karbokation and karbation. Note: Each vertex in the compressed formula above is a carbon atom. Since the compound does not have multiple connections, each carbon atom will have maximum amounts, it may have fewer other carbon atoms directly attached to them. Their.

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