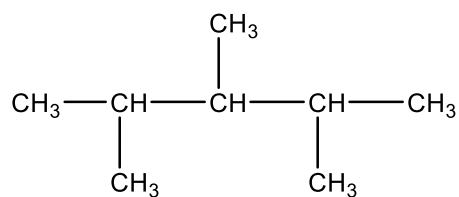
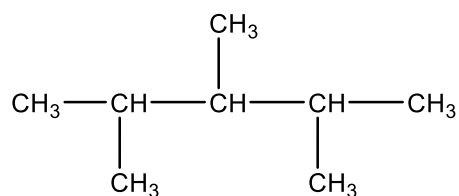


Give the systematic (IUPAC) name for this molecule.



The IUPAC (International Union of Pure and Applied Chemistry) nomenclature system is a standardized method for naming organic compounds. The IUPAC name for an alkane is based on the number of carbon atoms in the chain, and the location of any functional groups or substituents.

In order to name an alkane, you must first identify the longest continuous chain of carbon atoms in the molecule. Then, you must number the carbon atoms in the chain such that the first carbon atom in the name has the lowest number possible. Finally, you must list the substituents, if any, in alphabetical order, followed by the prefix "alkane".



2,3,4-trimethylpentane