

# Free ebook Naming organic compounds people (Download Only)

the four main classes of organic compounds are carbohydrates sugars and starches lipids fatty acids fats and oils proteins amino acids peptide proteins enzymes and nucleic acids rna and dna many organic compounds are polymers which means they consist of many subunits bonded together organic compounds typically consist of groups of carbon atoms covalently bonded to hydrogen usually oxygen and often other elements as well created by living things they are found throughout the world in soils and seas commercial products and every cell of the human body an organic compound is any chemical compound in which one or more atoms of carbon are covalently linked to atoms of other elements most commonly hydrogen oxygen or nitrogen the few carbon containing compounds not classified as organic include carbides carbonates and cyanides organic chemistry is the study of carbon compounds which extends to understanding chemical reactions in living organisms and products derived from them there are numerous examples of organic chemistry in everyday life they re all around us here are examples of organic chemistry at work the modern meaning of organic compound is any compound that contains a significant amount of carbon even though many of the organic compounds known today have no connection to any substance found in living organisms there are four main types or classes of organic compounds found in all living things carbohydrates lipids proteins and nucleic acids in addition there are other organic compounds that may be found in or produced by some organisms organic compounds in nature a major focus of organic chemistry is the isolation purification and structural study of naturally occurring substances since many natural products are simple organic molecules volatile organic compounds vocs are a type of chemical typically found in a gaseous form and is consequently widely produced by humans as well as distributed throughout the environment for a variety of domestic and commercial purposes vereecken et al 2018 us researchers found that people and their possessions directly emitted 57 of the volatile organic compounds vocs they measured in the air of a university lecture theatre an organic compound is a compound that in general contains carbon covalently bound to other atoms especially carbon carbon c c and carbon hydrogen c h such as in hydrocarbons a chemical compound refers to any substance made up of two or more elements that are chemically bonded together organic chemicals known as volatile organic compounds vocs adversely affect the environment and human health they evaporate at room temperature and normal pressure and can be present in both closed and open spaces organic compounds form the basis of all earthly life and constitute the majority of known chemicals the bonding patterns of carbon with its valence of four formal single double and triple bonds plus structures with delocalized electrons make the array of organic compounds structurally diverse and their range of applications enormous volatile organic compounds or vocs are gases that are emitted into the air from products or processes some are harmful by themselves including some that cause cancer in addition some can react with other gases and form other air pollutants after they are in the air volatile organic compounds vocs are emitted as gases from certain solids or liquids vocs include a variety of chemicals some of which may have short and long term adverse health effects concentrations of many vocs are consistently higher indoors up to ten times higher than outdoors volatile organic compounds vocs represent a broad class of chemicals many of which can be found in indoor air including residential indoor air vocs derive from a variety of sources including study specific effect size of the association between volatile organic compound voc exposure and four different health outcomes development of asthma wheezing throat irritation and others which included respiratory symptoms and diseases to describe functional groups and explain why they are useful in the study of organic chemistry scientists of the 18th and early 19th centuries studied compounds obtained from plants and animals and labeled them organic because they were isolated from organized living systems volatile organic compounds also known as vocs are chemicals that vaporize at room temperature most vocs are released into the air when we use products and materials containing vocs breathing in vocs can be harmful to health volatile organic compounds or vocs are chemicals that are lighter than air at room temperature and are responsible for the characteristic smells of things like paint thinner and perfumes the simplest organic compounds are hydrocarbons and are composed of carbon and hydrogen hydrocarbons can be aliphatic or aromatic aliphatic hydrocarbons are divided into alkanes alkenes and alkynes the combustion of hydrocarbons is a primary source of energy for our society

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