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## ***chemical reactivity definition and examples chemistry learner***

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chemical reactivity measures how readily a substance undergoes a chemical reaction by itself or by reacting with another substance from a thermodynamic point of view a chemical reaction occurs when the products have lower free energy than the reactants

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chemical reaction a transformation resulting in a change of composition constitution and or configuration of a compound referred to as the reactant or substrate reactant or substrate the organic compound undergoing change in a chemical reaction

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the elements within the same group of the periodic table tend to exhibit similar physical and chemical properties four major factors affect reactivity of metals nuclear charge atomic radius shielding effect and sublevel arrangement of electrons

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in chemistry reactivity is a measure of how readily a substance undergoes a chemical reaction the reaction can involve the substance on its own or with other atoms or compounds generally accompanied by a release of energy the most reactive elements and compounds may ignite spontaneously or explosively

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chemical reactions occur when chemical bonds between atoms are formed or broken the substances that go into a chemical reaction are called the reactants and the substances produced at the end of the reaction are known as the products

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in chemistry reactivity is the impulse for which a chemical substance undergoes a chemical reaction either by itself or with other materials with an overall release of energy reactivity refers to the chemical reactions of a single substance the chemical reactions of two or more substances that interact with each other

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intro to chemical reactions symbols in chemical equations balancing chemical equations balancing more complex chemical equations visually understanding balancing chemical equations balancing another combustion reaction energy of chemical reactions unlock the world of chemical reactions

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in designing the synthesis of a molecule such as a new drug for example chemists must be able to understand the mechanisms of intermediate reactions to maximize the yield of the desired product and minimize the occurrence of unwanted reactions

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chemical reactivity is multi faceted and hence inherently complex nevertheless once the mechanisms of barrier formation and incursion of reaction intermediates are outlined this will provide predictability of chemical reactivity selectivity and mechanisms in the ground and excited states

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chemical reactivity is the focus of chemistry and the study of reaction rates provides essential information about this subject some reactions proceed so rapidly they seem to be instantaneous whereas other reactions are so slow they are nearly unobservable

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what are the basics of chemical reactions what happens to chemical bonds when a chemical reaction takes place how are chemical reactions classified

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about transcript physical and chemical processes can be classified by the changes occurring on the molecular level in general chemical processes involve changes in chemical bonds while physical processes involve changes only in intermolecular forces

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reactivity is a measure of how much a substance tends to react with other things 1 some substances are more reactive and others are less reactive reactivity is set by several factors the range of circumstances conditions that include temperature pressure or presence of catalysts in which the substance reacts

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a chemical reaction is a process that changes the chemical identity of the starting materials chemical reactions are the backbone of chemistry and arguably life itself understanding what a chemical reaction is how to represent it how to categorize it and how to distinguish it from a physical change is vital what is a chemical reaction

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the reactivity of a molecule increases if it contains one or more weak bonds or bonds that have an unequal distribution of electrons between the two atoms if the two electrons of a covalent bond are for one reason or another drawn more closely read more organometallic compounds

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key concepts a physical change such as a state change or dissolving does not create a new substance but a chemical change does a chemical change is the result of a chemical reaction in a chemical reaction the atoms and molecules that interact with each other are called reactants

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under nanoconfinement chemical properties can be modulated to increase reaction rates enhance selectivity and stabilize reactive species confinement effects also lead to changes in

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in your body right now there are countless chemical reactions going on every second without chemical reactions we would have no life we would not even have the universe as we know it so what are chemical reactions well they re any time that you have bonds being formed or broken between atoms or molecules so what are we talking about

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chemistry and chemical reactivity j kotz p treichel g weaver published 1 october 1999 chemistry tldr by emphasizing the close interrelationship of the macroscopic symbolic and particulate levels of chemistry kotz and treichel provide an important organizing principle that carries throughout the book expand chem libretexts org

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the reactive properties of chemicals vary widely and they play a vital role in the production of many chemical material pharmaceutical and food products we use daily when chemical reactions are not properly managed they can have harmful or even catastrophic consequences such as toxic fumes fires and explosions

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