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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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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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a chemical reaction is a process in which the chemical structure of a substance changes leading to the formation of a new substance with different properties in other words the reactants convert into products through the breaking and formation of chemical bonds

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understanding why organic molecules react as they do requires knowing something about the structure and properties of the transient species that are generated during chemical reactions identifying transient intermediates enables chemists to elucidate reaction mechanisms which often allows them to control the products of a reaction

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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

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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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a chemical reaction is a process in which one or more substances also called reactants are converted to one or more different substances known as products substances are either chemical elements or compounds a chemical reaction rearranges the constituent atoms of the reactants to create different substances as products the properties of

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understanding chemical reactivity through the use of state of the art computational techniques enables chemists to both predict reactivity and rationally design novel reactions this

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the dissolving or dissolution of a salt in water is considered a chemical change because we are breaking ionic bonds between the salt ions and forming new noncovalent ion dipole bonds between the ions and the water molecules

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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

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chemical reactions are the processes by which chemicals interact to form new chemicals with different compositions

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the reactivity series of metals also known as the activity series refers to the arrangement of metals in the descending order of their reactivities the data provided by the reactivity series can be used to predict whether a metal can displace another in a single displacement reaction

inorganic chemistry how can i relate the reactivity series

Oct 05 2022

two thoughts 1 more reactive with what 2 the alkali metals are very power reducing agents their reaction with water gets more explosive as you go down the group to lower electronegativities ben norris dec 2 2014 at 11 35 bennorris i guess this question is referring to the metal reactivity series

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