## I'm not a robot



Named Reactions in Organic Chemistry for NEET 2025 consist of reaction, Wolf Kishner Reduction, Etard's Reaction, Wolf Kishner Reduction, Etard's Reaction etc. It is one of the most important chapters in the NEET 2025 Syllabus. The Named Reactions in Organic Chemistry chapter carries a weightage of 35.6 per cent. There are 15 to 20 questions asked in the NEET exam from Named Reactions in Organic Chemistry chapter rather than mugging the formulas during NEET Exam Preparations . They must mind map the important reactions of chemicals and make short notes of changes while they study. This learning the important topics in the chapters will not be a daunting task. In this article, know in detail about the important reactions to the Named Reactions in Organic Chemistry for NEET 2025, understanding approach, tips to score good marks and more. List of Important Named Reactions in Organic Chemistry for NEET 2025 There are numerous reactions in Organic Chemistry for NEET 2025. reactions in Organic Chemistry for NEET 2025 given below. Clemmensen Reduction Friedel-Crafts alkylation Friedel Crafts Acylation Friedel-Crafts alkylation Friedel-Crafts alk Reaction Knoevenagel Reaction Meerwein-Ponndorf-Verley Reduction Perkin Condensation Pinacol-Pinacolone Rearrangement Reformatsky Reaction Williamson's synthesis Wittig Reaction Wolf Kishner Reduction Wurtz Reaction Aldol condensation Baeyer-villiger-oxidation Beckmann Reaction Arndt Reaction Benzoin Condensation Dieckmann Reaction Dieckmann React approaches to become pros in NEET UG organic chemistry topics. There are certain rules and laws that students must know to understand organic chemistry has the maximum score weightage. In the NEET exam, there are 30 to 40 questions from organic chemistry in the chemistry section. Students are not required to mug formulas but rather understand the mechanisms of the reactions. They must very carefully study the rules and read the theory. Students must understand better. The most common mistake while studying organic chemistry chapters students make is that they try to memorise the formulas. They should avoid it rather than work on understanding the theory. They then must understand the process of reaction and the ways reaction is proceeding in the process rather than thinking "why" or "How" they occur. Students must read the theory to understand the concept of cause and effect in a particular reaction. Once students understand the cause of the reaction is directly proportional to the cause of the reaction. Students must practice NEET 2024 Chemistry Revision Notes to better understand the reactions and the causes behind them. These revision notes consist of the well-explained theory behind a reaction chapters in organic chemistry is not an impossible task with a strategic approach and realistic study roadmap. Students can find the tips to master the Named Reactions chapter in Organic Chemistry for NEET 2025 given below. Students must build a very good understanding of chemistry. Students must bearn the basics of E-1, E-2, SN-1 and SN-2 reactions that place and proceed. Students must build a very good understanding of chemistry for NEET 2025 given below. concepts behind named reactions. In the beginning, students must understand the phenomena behind a chemical reaction to remember topics from the named reactions more effectively. Students must understand the phenomena behind a chemical reaction to remember topics from the named reactions more effectively. Students must understand the phenomena behind a chemical reaction to remember topics from the named reactions. the use of elements and compounds to better comprehend the reaction during revisions. Significance of Named Reactions in Organic Chemistry as it mostly teaches about the reactions of several elements and compounds. It tells about the formation of pie and sigma bonds with the help of different elements and compounds that further form new molecules. Named Reactions chapters teach students must understand to get a hold of the phenomena in the reaction process of chemicals. Named reaction also highlights basic reaction concepts that help in predicting future steps in any occurring reaction. Further, students must learn the Isolation of the intermediates. They must master topics like stable carbocation or carbon free radicals etc. Students must study reactions in the presence of various similar substrates with different catalysts that work during the reactions. Students must study isotopically labelled atoms in the presence of various similar substrates with different catalysts that work during the reactions. Students must study isotopically labelled atoms in the presence of various similar substrates with different catalysts that work during the reactions. the method of trapping free radicals with the help of a few reagents while studying named reactions. Students must also study crossover experiments and strategies that students can apply to score good marks in the organic chemistry section. Students can find the tips and strategies mentioned below. Students must start reading and understand the reaction effects applications. For example, inducing effect resonance & hyperconjugation and their application in the organic reaction mechanisms. Students must be able to understand elimination and substitution reaction mechanisms and several other mechanisms. Students must have clarity regarding the concepts and must have a good memory regarding the formulas. This can be attained with proper practice of theory and understanding of the cause and effect of a chemical reaction observe cause & effect keenly in visual format to capture the incident along with the causes and effect. It will help them to learn the chemical reaction more effectively. Therefore, these were the list of named Reactions in Organic Chemistry for NEET 2025 log on to our CollegeDekho QnA Zone . Students can even contact the toll-free helpline number 18005729877. Say goodbye to confusion and hello to a bright future! How can the Named Reactions in Organic Chemistry for the NEET be studied by mugging the formulas. Students must understand the phenomenon, the cause of a chemical reaction, and the effect of the chemical reactions to recall the formulas, the reactions chapter in Organic Chemistry? In Organic Chemistry, Named Reactions teaches students about the phenomenon of chemical reactions. The chapter teaches aboutthe pie and sigma bonding phenomenon, its causes, its effects and the theory behind its occurrence. What are the topics in the Named Reactions in Organic Chemistry for NEET 2025 are Hoffmann Bromamide Degradation, Jones reagent, Kolbes Reaction etc. Students must study all the topics effectively to understand the reactions, concepts behind them and it is time to do thorough revisions and give your best for the entrance exam. There are often some important Name Reactions in Organic Chemistry that we tend to overlook while reaction in Organic Chemistry for NEET 2023. Table of Contents In organic chemistry, name reactions are named after their discoverers or inventors. The name reaction is a type of simplification that avoids having to give a more detailed description of the properties of a specific transformation, the Friedel-Crafts acylation, and the Diels-Alder reaction, the Friedel-Crafts acylation, the Friedel-Crafts acylation, and the Diels-Alder reaction, the Friedel-Crafts acylation across the F and well-established in organic chemistry over many years. Aldol condensation is a reaction that occurs when an α-hydrogen aldehyde reacts with a dilute base to produce β-hydroxy aldehydes termed aldols. The condensation of two different aldehydes termed aldols. both of them include α-hydrogen atoms. Balz-Schiemann Reaction The Balz Schiemann Reaction Mechanism describes the synthesis and subsequent thermal degradation of an aromatic fluoroborate to yield the corresponding aryl fluoride. Günther Schiemann and Günther Balz, two German scientists, are credited with coining the term the reaction Aromatic amines, nitrous acid, and fluoroboric acid are the primary reactants. Aromatic amines perform diazonium salt. Now, the heat-sensitive aryl diazonium salt is thermally decomposed, yielding aryl fluoride, nitrogen, and boron trifluoride. An example of a Balz-Schiemann reaction would be the following: the conversion of a phenyl fluoride using fluoroboric acid, nitrous acid, and the addition of heat: Carbylamine reaction Hofmann isocyanides are produced by combining a primary amine chloroform, and base. The addition of an amine to the intermediate formed by the dehydrohalogenation of chloroform is part of the Carbylamine reaction mechanism. Dichlorocarbene refers to this intermediate. The carbylamine reaction mechanism. Dichlorocarbene refers to this intermediate. Cannizzaro reaction, named after Stanislao Cannizzaro, is a chemical reaction in which two molecules of a non-enolizable aldehyde are disproportionated by a base to produce a carboxylic acid and a primary alcohol. The Cannizzaro Reaction Mechanism explains how two molecules of an aldehyde are converted into one molecule of alcohol and one molecule of carboxylic acid. A nucleophilic acyl substitution on an aldehyde is followed by the leaving group attacking another aldehyde, completing the reaction. Clemmensen Reduction Aldehydes or ketones can be converted to alkanes via the Clemmensen reduction is given the name after a Danish chemist, Erik Christian Clemmensen. This reaction is particularly efficient in aryl-alkyl ketones or aliphatic compounds with zinc metal provides optimal results from the reaction. Etard Reaction The Etard Reaction is named after Alexandre Léon Étard, a French chemist. The Etard Reaction is a chemical reaction, as shown below: Finkelstein Reaction In the Finkelstein reaction, halogen atoms are exchanged in a Substitution Nucleophilic Bimolecular reaction (SN2 Reaction). It is named after Hans Finkelstein, a German chemist. It is an organic reaction in which the metal halide salt is used to exchange one alkyl halide for another alkyl halide. By taking advantage of the poor solubility of acetone in newly formed metal halide salt, this reaction takes place in an equilibrium phase. The Finkelstein reaction is another electrophilic substitution reaction as its mechanism. Friedel-Crafts reaction is another electrophilic substitution reaction as its mechanism. Friedel-Crafts reaction is another electrophilic substitution reaction. James Crafts and the French chemist Charles Friedel developed these reactions in the year 1877. Gabriel Phthalimide Synthesis The Gabriel synthesis The Gabriel synthesis Converts primary alkyl halides to primary amines through a chemical reaction. Traditionally, potassium phthalimide is used in the reaction. There are three steps in the Gabriel Phthalimide Synthesis Mechanism. The synthesis is named after German chemist Siegmund Gabriel and is used to make primary alkyl halides. The Gabriel Phthalimide also produces a suitable nucleophile in the form of an imide ion. The imide ion performs a nucleophilic substitution reaction on the alkyl halide, yielding N-alkyl phthalimide as an intermediary. Gattermann Reaction, after German scientist Ludwig Gattermann formylation and Gattermann salicylaldehyde synthesis are other names for the Sattermann reaction and the Gattermann reaction are similar. By treating it with Cu/HCl or Cu/HBr, respectively, the Gattermann-Koch Reaction The first step in the Gattermann-Koch reaction mechanism is the formation of reactive species with the help of acid. The main objective of the reaction is illustrated in the example below. Substrates made of phenol ether cannot be used in the Gattermann-Koch reaction is to attach a formyl group (-CHO group) to an aromatic system. reaction. Traces of copper(I) chloride are usually needed when zinc chloride is used as a catalyst in the Gattermann-Koch reaction because it functions as a co-catalyst. Grignard Synthesis The addition of alkyl/vinyl/aryl magnesium halides to any carbonyl group in an aldehyde or ketone is explained by the Grignard reaction mechanism. The reaction is considered a significant technique for forming carbon-carbon bonds. The alkyl, vinyl, or aryl magnesium halides are known as Grignard reagents. The Grignard reagents are named after the French scientist Francois Auguste Victor Grignard reagents are named after the French scientist Francois Auguste Victor Grignard reagents. reagents resemble organolithium reagents in that they are strong nucleophiles and capable of forming carbon-carbon bonds. The nucleophilicity of the reagent is further increased when an amido group substituent. Kolbe's Electrolysis Reaction The Kolbe reaction, also known as the Kolbe Schmitt. Phenoxide ion is produced when phenol is reacted with sodium hydroxide. When it comes to electrophilic aromatic substitution reactions, the phenoxide ion is more reactive than the phenol. As a result, it conducts a weak electrophilic substitution reaction with carbon dioxide. The primary result is ortho-hydroxybenzoic acid (salicylic acid). This reaction is commonly known as Kolbe's reaction is initiated by the nucleophilic acid). This reaction is commonly known as Kolbe's reaction is initiated by the nucleophilic acid). using ozone to break the unsaturated bonds in alkenes, and azo compounds (compounds with the functional group) is known as ozonolysis. This is an organic redox reaction. Alkenes can be oxidised by ozone to produce acid anhydrides or diketones. The acid anhydride undergoes hydrolysis to produce two carboxylic acids if water is present in the reaction. Elastomer ozonolysis of azo compounds produces nitrosamines. Reimer-Tiemann Reaction A type of substitution reaction is named for the chemists Karl Reimer and Ferdinand Tiemann. The process involves ortho-formylation of C6H5OH, are treated with CHCl3 (chloroform) in the presence of NaOH (sodium hydroxide), resulting in the formation of o-hydroxybenzaldehyde (2-hydroxy benzaldehyde) is a notable example of the Reimer-Tiemann reaction. Rosenmund Reduction Rosenmund Reduction Mechanism describes the way acyl chlorides are preferentially reduced into aldehydes. The reaction was named after Karl Wilhelm Rosenmund reaction, molecular hydrogen reacts with the acyl chloride in the presence of a palladium on the barium sulfate-based catalyst. Due to its small surface area, barium sulphate reduces the palladium's activity and prevents over-reduction. A poison can be added to completely deactivate the palladium catalyst should the necessity for additional palladium that has been poisoned by barium sulphate, the Rosenmund reduction converts acid chlorides into aldehydes. Below is an illustration of this catalytic hydrogen gas, it easily initiates a substitution in the acyl chloride, producing HCl and the desired aldehyde. Sandmeyer Reaction Sandmeyer reaction is a form of substitution reaction which is widely used in the formation of aryl halides from aryl diazonium salts. Catalysts for this process include copper salts like chloride, bromide, or iodide ions. It is noted that unique transformations of benzene can be performed via the Sandmeyer reaction. The modifications comprise hydroxylation, trifluoromethylation, cvanation, and halogenation. A good example of a radical-nucleophilic aromatic substitution is considered to be a Sandmeyer reaction, which can then be converted into different functional groups. Stephen Reduction Mechanism. The reaction is called Stephen aldehyde synthesis after its inventor Henry Stephen. The reaction involves the formation of aldehydes from nitriles using tin(II) chloride and hydrochloric acid, followed by the quenching of the iminium salt with water. Another useful byproduct of this process is ammonium chloride, as shown in the diagram below. As indicated above, when nitrile is reduced with stannous chloride and hydrogen chloride gas (in ethyl acetate solvent), an imine intermediate is generated. The equivalent aldehyde is obtained by hydrolysis of this imine intermediate. Swarts reaction. This is performed by heating the alkyl chloride/bromide in the presence of the is formed once the metal fluorine bond is broken. The displaced chlorine or bromine atoms now combine with the metal. The term "Swarts reagent" refers to the antimony trifluoride and chlorine combination. According to Swarts' rule, the fluoride that is produced after fluorination will always have a lower boiling point than the corresponding chloride. Williamson Ether Synthesis The Williamson ether synthesis, which is the standard procedure for producing ether, involves the nucleophilic displacement of a halide ion or other suitable leaving group by an alkoxide ion. The name of the reaction was popularised after Alexander Williamson created it in 1850. Deprotonated alcohol and an organohalide are combined in the Williamson Ether Synthesis reaction to produce ether. Williamson Ether Synthesis usually occurs as an SN2 reaction of a primary alkyl halide with an alkoxide ion. This chemical reaction demonstrated how ethers are structured. This reaction can only be effective if the alkyl halide is primary or secondary. requiring the SN2 pathway for synthesis. The ethers produced in this method are more complex structures and include more carbon atoms than either of the initial materials. Wolff Kishner reduction A hydrazone anion is first created in the Wolff Kishner reduction mechanism, which subsequently releases the nitrogen atom to produce a carbanion This carbanion then produces a hydrocarbon when it interacts with the water in the system. The solvent used for this process is diethylene glycol. Aldehydes and ketones are converted to alkanes in this organic reduction mechanism. Some carbonyl compounds can be easily reduced to alkanes because they are stable under strongly basic conditions (The carbon-oxygen double bond becomes two carbon-hydrogen single bonds). Step 1: The aldehyde or ketone undergoes hydrazone for the reaction is produced. The reaction is produced. The reaction is produced by the method generally begins with the condensation of hydrazone for the reaction is produced. The reaction is produced. The reaction is produced by the method generally begins with the condensation of hydrazone for the reaction is produced. pre-formed hydrazone can offer benefits including a shorter reaction time, reaction temperature, or extremely mild reaction to be used in this reaction. Wurtz Reaction In Wurtz's reaction, an example of an organic chemical coupling reaction, sodium metal reacts with two alkyl halides in the presence of a dry ether solution to produce a higher alkane and a compound that contains both sodium and the halogen. This reaction has the name of the French chemist Charles Adolphe Wurtz, who also discovered the aldol reaction. For the synthesis of alkanes in organic and organometallic chemistry, the Wurtz reaction is a highly efficient process. With the use of sodium and dry ether solution, two distinct alkyl halides are coupled in this reaction to produce a longer alkane chain. Wurtz Fittig Reaction The Wurtz-Fittig reaction mechanism can be understood either through the organo-alkali mechanism or the radical mechanism. The Wurtz-Fittig reaction is named after the chemical reaction is named after the chemically more reactive than the aryl halide, the alkyl halide will first form the carbon sodium bond and then act as an aryl halide can be obtained conveniently. Fischer Esterification Fischer esterification is an organic reaction used to convert carboxylic acids in the presence of excess alcohol and a potent acid catalyst, producing an ester as the end product. This ester is produced along with water. Below are a few examples of Fischer esterification reactions. Azeotropic distillation or adsorption using molecular sieves are two methods used for removing water from the system during this esterification process. It serves as an explanation of a nucleophilicity of the alcohol and the electron affinity of the carbonyl carbon. Haloform Reaction The Haloform reaction is a chemical reaction that produces haloforms by halogenating methyl aldehyde or methyl ketone in the presence of a base. As shown above, when the methyl ketone is treated with the bromine halogen in an aqueous sodium hydroxide solution, polyhalogenation occurs, followed by the cleavage of the methyl group. The carboxylate and tribromomethane, which is the necessary haloform, are the end products of the reaction. Hell-Volhard-Zelinsky Reaction Hell Volhard Zelinsky Reaction Mechanism is distinctive among halogenate carboxylic acids. Carl Magnus Von Hell, Jacob Volhard, and Nikolay Zelinsky are the chemists who gave their names to this reaction. The reaction is initiated by adding one molar equivalent of phosphorus tribromide (catalytic quantity). The fluorination and iodination of carboxylic acids are not possible with the HVZ reaction. If the Hell Volhard Zelinsky reaction is carried out at extremely high temperatures, hydrogen halide may be eliminated from the product, resulting in the formation of beta-unsaturated carboxylic acids. Hoffmann Bromamide Reaction The standard Hoffmann Bromamide reaction and the subsequent formation of an anion. A primary amide is converted into a primary amide with one less carbon atom using this reaction process. This is done by heating the primary amide with a solution of water, a strong base, and a halogen (chlorine or bromine). The following is an example of the reaction. This method produces primary amines that are not affected by secondary or tertiary amines. The Hoffmann degradation of amide is another name for the reaction. The primary amide is converted into an isocyanate intermediate when bromine reacts with sodium hydroxide to produce sodium hydroxide to prod transfer steps. The ammonium cation, which was created when water attacked the isocyanate intermediate, is quenched by the heat conditions to produce the necessary amine product. This results in the explosion of carbon dioxide gas. Fischer Indole Synthesis Walden Inversion Perkin Reaction Mechanism Diels-Alder Reaction Mechanism Michael Addition Mechanism Heck Reaction Mannich Reaction Mennism Hydroboration oxidation reaction Claisen condensation Lindlar Catalyst Maillard Reaction Mennism Hydroboration oxidation Related Links: Related Video: Covalent bonds exist between halogens, nitrogen, and sulphur in organic compounds. If they are in the ionic state, they can be detected using Lassaigne's test. The organic compound and sodium metal can be fused to accomplish this. These chemical reactions include the use of organic compounds to provide the C, N, S, and halogen. Na + C + N  $\rightarrow$  NaCN Na + S  $\rightarrow$  NaSCN 2Na + S  $\rightarrow$  Na2S Na + X  $\rightarrow$  NaX (X = Cl, Br, I) The organic compounds are classified as: (i) Acyclic or open chain compounds (ii) Alicyclic or closed chain or ring compounds (iii) Aromatic compounds the Testbook APP & Get Pass Pro Max FREE for 7 Days10,000+ Study NotesRealtime Doubt Support71000+ Mock TestsRankers Test Series+ more benefitsDownload App Now Be the master of organic name reactions class 12. Learn mechanisms, solve problems, and prepare for board exams. Finkelstein Reaction, Swarts Reaction, Wurtz-Fittig Reaction, Wurtz-Fittig Reaction, Williamson Synthesis, Cumene Process, Rosenmund Reduction, Stephen Reaction, Etard Reaction, Gattermann-Koch Reaction, Hunsdiecker Reaction, Holf-Kishner Reduction, Wolff-Kishner Reduction, Holform Reaction, Hell-Volhard-Zelinsky (HVZ) Reaction, Decarboxylation Reaction, Hunsdiecker Reaction, Holform Reaction, Holform Reaction, Amides are treated with bromine in an aqueous or ethanolic solution of sodium hydroxide to produce primary amines with one carbon atom less than the parent amide, Gabriel Phthalimide Synthesis, Carbylamine Reaction, Diazotization Reaction, Sandmeyer Reaction, Gattermann Reaction, Balz-Schiemann Reaction, Coupling Reaction: Alkyl iodide is prepared from alkyl chlorides or bromides with metallic fluorides or bromides with metallic fluorides (e.g., AgF, Hg<sub>2</sub>F<sub>2</sub>, CoF<sub>2</sub>). Wurtz Reaction: Alkyl halides react with metallic sodium in dry ether to form alkanes containing double the number of carbon atoms. Methane cannot be prepared by this method. Fittig Reaction: A mixture of an alkyl halide and an aryl halide reacts with sodium in dry ether to form an alkyl arene. Ullmann Reaction (Ullmann Coupling): Chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze) at temperatures above 200°C, two molecules of chlorobenzene is heated with finely divided copper provider (or copper bronze). gives phenol. Friedel-Crafts Alkylation: Benzene or its derivatives react with alkyl halides in the presence of anhydrous AlCl3 to form alkylbenzenes. Friedel-Crafts Acylation: Benzene or its derivatives react with acyl chlorides or acid anhydrous AlCl3 to form alkylbenzenes. Friedel-Crafts Alkylation: Benzene or its derivatives react with acyl chlorides or acid anhydrous AlCl3 to form alkylbenzenes. Friedel-Crafts Alkylation: Benzene or its derivatives react with acyl chlorides or acid anhydrous AlCl3 to form alkylbenzenes. Friedel-Crafts Alkylation: Benzene or its derivatives react with acyl chlorides or acid anhydrous AlCl3 to form alkylbenzenes. Friedel-Crafts Alkylation: Benzene or its derivatives react with acyl chlorides or acid anhydrous AlCl3 to form alkylbenzenes. Friedel-Crafts Alkylation: Benzene or its derivatives react with acyl chlorides or acid anhydrous AlCl3 to form alkylbenzenes. Friedel-Crafts Alkylation: Benzene or its derivatives react with acyl chlorides or acid anhydrous AlCl3 to form alkylbenzenes. Reaction (Kolbe-Schmitt Reaction): Sodium phenoxide reacts with carbon dioxide under pressure and heat, followed by acidification, to yield salicylic acid. Reimer-Tiemann Reaction: Phenol reacts with carbon dioxide under pressure and heat, followed by acidification, to yield salicylic acid. Reimer-Tiemann Reaction: Phenol reacts with carbon dioxide under pressure and heat, followed by acidification, to yield salicylic acid. used, salicylic acid is formed). Williamson Synthesis: Used for the preparation of symmetrical and unsymmetrical ethers by reacting an alkoxide with an alkyl halide. Cumene Process: Oxidation of cumene (isopropylbenzene) forms cumene hydroperoxide, which on acid hydrolysis gives phenol and acetone. Aldehydes, Ketones and Carboxylic Acids Rosenmund Reduction: Acyl chlorides are catalytically hydrogenated in the presence of palladium on barium sulfate (poisoned with sulfur or quinoline) to yield aldehydes. Etard Reaction: Toluene is oxidized by chromyl chloride to a chromium complex, which on hydrolysis gives benzaldehyde. Gattermann-Koch Reaction: Benzene or its derivatives react with carbon monoxide and hydrogen chloride in the presence of anhydrous AlCl3 or CuCl to give benzaldehyde or substituted benzaldehyde. Clemmensen Reduction: The carbonyl group of aldehydes and ketones is reduced to a -CH<sub>2</sub> group on treatment with zinc amalgam and concentrated hydrochloric acid. Wolff-Kishner Reduction: The carbonyl group of aldehydes and ketones is reduced to a -CH<sub>2</sub> group on treatment with hydrazine, followed by heating with potassium or sodium hydroxide in a high-boiling solvent like ethylene glycol. Aldol Condensation: Aldehydes and ketones containing at least one α-hydrogen atom undergo condensation in the presence of dilute alkali to form β-hydroxy ketones (ketols). Cross Aldol Condensation carried out between two different aldehydes and/or ketones. Cannizzaro Reaction: Aldehydes that do not have an α-hydrogen atom undergo self-oxidation and reduction (disproportionation) on treatment with concentrated alkali. One molecule is oxidized to a carboxylic acid salt, and another is reduced to an alcohol. Benzoin (in the presence of cyanide ions (CN-). Perkin's (Condensation) Reaction: Condensation of an aromatic aldehyde with an acid anhydride in the presence of sodium or potassium salt of the same acid to produce α,β-unsaturated acid. Haloform (e.g., iodoform, CHI<sub>3</sub>) and a carboxylic acid salt. Hell-Volhard-Zelinsky (HVZ) Reaction: Carboxylic acids having an  $\alpha$ -hydrogen are halogenated at the  $\alpha$ -position on treatment with chlorine or bromine in the presence of red phosphorus to give  $\alpha$ -halocarboxylic acids. Decarboxylic acids having an  $\alpha$ -hydrogen are halogenated at the  $\alpha$ -position on treatment with chlorine or bromine in the presence of red phosphorus to give  $\alpha$ -halocarboxylic acids. a carbon dioxide molecule to form alkanes. Hunsdiecker Reaction: Silver salts of carboxylic acid reacts with halogens to form an unstable intermediate which further undergoes thermal decarboxylation leading to the formation of a final product known as alkyl halides. Amines Hofmann Bromamide Degradation Reaction: Amides are treated with bromine in an aqueous or ethanolic solution of sodium hydroxide to produce primary amines with one carbon atom less than the parent amide. Gabriel Phthalimide by this synthesis: Primary amines can be prepared from phthalimide by this synthesis. Primary amines can be prepared from phthalimide by this synthesis. halide to form N-alkylphthalimide which on hydrolysis yields the primary amine. Carbylamine Reaction (Isocyanides (carbylamines), which have a foul odor. (This reaction is a test for primary amines). Hinsberg's Test: This test is used to distinguish primary, secondary, and tertiary amines using benzene sulfonyl chloride (Hinsberg's reagent). Liebermann's Nitroso Reaction: This reaction is used to identify the presence of sulfuric acid, producing a characteristic blue or green color. NaNO2 + HCl  $\rightarrow$  HONO + NaCl (C2H5)2NH + HONO  $\rightarrow$  (C2H5 nitrous acid (prepared in situ from NaNO2 and a mineral acid like HCl) at low temperatures (0-5 °C) to form diazonium group with -Cl, -Br, or -CN respectively. Gattermann Reaction: Similar to Sandmeyer reaction, but uses copper powder and the corresponding halogen acid (HCl or HBr) to introduce -Cl or -Br. Balz-Schiemann Reaction: Benzene diazonium fluoroborate, upon heating, decomposes to yield fluorobenzene, nitrogen, and boron trifluoride. Coupling Reaction: Benzene diazonium fluoroborate, upon heating, decomposes to yield fluorobenzene, nitrogen, and boron trifluoride. anilines to form brightly colored azo dyes. 0 ratings0% found this document useful (0 votes)65 views21 pagesThe document provides a comprehensive overview of important named reactions in organic chemistry relevant for the NEET 2023 exam. It includes detailed descriptions of various reactions such ... SaveSave All Named Reactions in Organic Chemistry for NEET ... For Later0%0% found this document useful, undefined0 ratings0% found this document useful, undefined0 ratings0% found this document useful, undefined0 ratings0% found this document useful (0 votes)65 views21 pagesThe document useful, undefined0 ratings0% found this document useful (0 votes)65 views21 pagesThe document useful, undefined0 ratings0% found this document useful (0 votes)65 views21 pagesThe document use various reactions such as Aldol Condensation, Cannizzaro Reaction, and Grignard Synthesis, along with their mechanisms and examples. The content is structured to assist students in revising key concepts and strategies for the exam.0 ratings0% found this document useful (0 votes)65 views21 pagesThe document provides a comprehensive overview of important named reactions in organic chemistry relevant for the NEET 2023 exam. It includes detailed descriptions of various reactions such ... Name reactions such that are named after the scientists who discovered or developed them. This trend started in 1822 with scientist Lieben. He studied the reaction of many carbonyl compounds with iodine and alkali and postulated rules that formed the basis of the iodoform test. This is the reaction was named after Lieben and was called Lieben Haloform Reactions are very important for board examinations and competitive exams such as IIT JEE, NEET etc.Important to score well in the board exam and clear JEE or NEET exams. Here we are providing you with a list of important named reactions in organic chemistry, which will be handy for you during revision. We have linked listed named reactions with separate pages as well in which named reactions in Organic ChemistryFriedel Crafts Alkylation ReactionBy this reaction, alkyl benzene is formed by the reaction of the aromatic compound and alkyl halide in the presence of Friedel Crafts Acylation Reaction. Friedel Crafts Reaction of an acylating agent and aromatic compound in the presence of Friedel craft catalyst. For more details, visit the following pages on Vedantu-Friedel Crafts Reaction. In this reaction, 1° or 2° amine/ ammonia reacts with non-enolizable aldehyde and enolizable carbonyl compounds to form a Mannich base. For more details on mannich reaction, visit the following page on Vedantu-Mannich Reaction. Hoffmann Bromamide Degradation ReactionIn Hoffmann bromamide degradation reaction, an amide reacts with bromine and an aqueous solution of sodium hydroxide which produces primary amine. For more details, visit the following pages on Vedantu-Hoffmann Bromamide Reaction React is hydrogenated to get reduced into aldehyde, and palladium-barium sulphate is used as a catalyst. For more details, visit the Hofmann Elimination ReactionTertiary amines and alkenes are formed by Hofmann elimination reaction. For more details, visit the Hofmann Elimination article page on Vedantu. In this reaction, one molecule of aldehyde is oxidized to carboxylic acid, and another molecule of aldehyde is reduced to an alcohol. For more details, visit the following pages on Vedantu- Cannizzaro Reaction in which two alkyl halides react with sodium to form a new alkane. For more details, visit the following pages on Vedantu- Cannizzaro Reaction in which two alkyl halides react with sodium to form a new alkane. For more details, visit the following pages on Vedantu- Cannizzaro Reaction in which two alkyl halides react with sodium to form a new alkane. For more details, visit the following pages on Vedantu- Cannizzaro Reaction in which two alkyl halides react with sodium to form a new alkane. For more details, visit the following pages on Vedantu- Cannizzaro Reaction in which two alkyl halides react with sodium to form a new alkane. Wurtz Reaction and Important Chemical Reactions for Class 12 Chemistry pages on Vedantu. It is a halogen exchange reaction and Important Chemical Reactions for Class 12 Chemistry pages on Vedantu. It is used to make cinnamic acids. It gives α,βunsaturated aromatic acid by aldol condensation. For more details, visit the Perkin Reaction Mechanism page on Vedantu. In the Sandmeyer reaction, a product of diazotization reaction, which is diazonium salt, is used to synthesize aryl halides. It is used in the synthesis of aromatic ring compounds such as aromatic halides and aromatic aldehydes. This reaction is used in the formation of fluorobenzene. The reaction in which alkyl iodides are prepared by the reaction. When aryl halides react with metallic sodium in the presence of dry ether, it forms biphenyl as a major product. Then this reaction is known as the Fittig Reaction. Reimer - Tiemann Reaction. Reimer - Tiemann Reaction form in the presence of sodium hydroxide, as a result of which an aldehyde group gets attached to the ortho position of the ring. This reaction gives 2-hydroxybenzoic acid or salicylic acid by using phenol, sodium hydroxide and carbon dioxide.In Stephen Reaction, nitrile reacts with SnCl2 in the presence of HCl and gives imine hydrochloride, which on hydrolysis gives aldehyde. Gattermann - Koch reaction, benzene is treated with carbon monoxide in the acidic medium in the presence of anhydrous aluminium chloride to give benzaldehyde. Clemmensen Reduction ReactionIn the Clemmensen reduction ReactionIn the Clemmensen reduction ReactionIn the Carbonyl group of aldehydes and ketones on reaction with zinc amalgam and conc. HCl is reduced to their corresponding hydrocarbon. Wolff Kishner Reduction ReactionIn the Clemmensen Reduction Reaction Reaction Reduction Reduction Reaction Reduction Reaction Reduction R with hydrazine and forms hydrazone, which on heating with sodium hydroxide in boiling ethylene glycol reduces to CH2 group. In an aldol condensation reaction, two molecules of an aldehyde or ketones get condensed and form β - hydroxy aldehyde or ketone, respectively, in the presence of dilute alkali. When aliphatic or aromatic primary amines are heated with chloroform, and ethanolic potassium hydroxide produces carbyl amines or isocyanides. This reaction is known as the carbylamine reaction. For more details, visit the Important Chemical Reactions for Class 12 Chemistry page on Vedantu. If you want to get more study material on various topics of organic chemistry, then register yourself on Vedantu and get NCERT Solutions, Mock tests, Sample papers etc. 0 ratings0% found this document useful (0 votes)855 views3 pagesThe document lists important organic name reactions that are useful for exams like IIT/NEET/AIEEE. 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