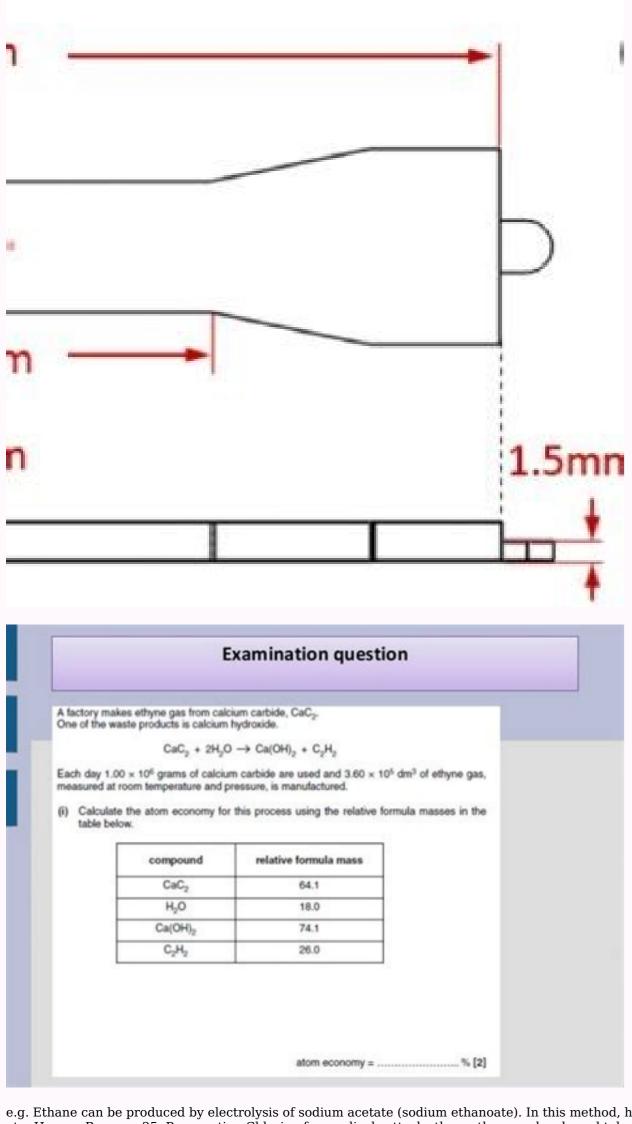
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e.g. Ethane can be produced by electrolysis of sodium acetate (sodium acetate (sodium acetate (sodium acetate (sodium acetate). In this method, higher alkanes are produced. The alkanes may be divided as: 1) Open chain or Acyclic alkanes are produced. The alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced. The alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced. The alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method, higher alkanes are produced by electrolysis of sodium acetate (sodium acetate). In this method acetate (sodium acetate) are produced by electrolysis of sodium acetate (sodium acetate). In this method acetate (sodium acetate) are produced by electrolysis of sodium acetate (sodium acetate) are produced by electrolysis of sodium acetate (sodium acetate) are produced by electrolysis of sodium acetate (sodium acetate). In this method (sodium acetate) are produced by electrolysis of sodium acetate (sodium acetate) are produced as a sodium acetate (sodium acetate). atm Hexane Benzene 25. Propagation Chlorine free radicals attacks the methane molecule and takes the reaction in the formation of H-Cl. The methyl radical thus obtained attacks the second molecule of chlorine to form CH3-Cl with the liberation of another chlorine free radical by homolysis of chlorine molecule. The general combustion equation for any alkane is: Due to the evolution of large amount of heat during combustion, alkane are used as fuels cells. In this method alkane having one carbon less than the salt of carboxylic acid, is produced. Alkyl halides on treatment with sodium metal in dry ethereal (free from moisture)solution give higher alkanes. The unsaturated hydrocarbons (alkenes and alkynes) are converted into alkanes by catalytic hydrogenation. • The front carbon further from the eye is represented by the circle. • In a mechanism there are three steps: - Initiation, propagation and termination. 27. This process is called aromatization. Pyrolysis of hexane gives following product: 24. 10. • The reaction in which an atom or a group of atoms in a molecule is replaced by some other atom or group of atoms. Petroleum and natural gas are the main source of alkanes. ALKANES AND THEIR PREPARATION 2. CH4 +H2O CO + 3H2 When higher alkanes are heated to high tempreture in the presence of alumina or silica catalysts, the alkanes break down to lower alkanes and alkenes. The hydrogenation reaction of unsaturated hydrocarbon using nickle at a tempreture of 523-573K is commonly known as Sabatier and Sender's reaction or reduction. HERMANN KOLBE 12. This reaction is known as Wurtz reaction and is used for the preparation of higher alkanes containing even number of carbon atom. 16. Hydrolysis of Grignard reagents produces corresponding alkanes. At high temperatures and pressure do undergo some reaction. Soda-lime is prepared by soaking quick lime in a caustic soda solution and then drying. Methane cannot be prepared by this method because starting alkene or alkyne must contain at least two carbon atoms forming the σ bond are represented by two circle; one behind the other so that only the front carbon is seen. • Therefore, the C-H bonds of the front carbon are depicted from the centre of the circle while C-H bonds of the back carbon are drawn from the circumference of the circle at an angle of 120° at each other. 18. Free pdf Books are available! -> Class 11 Chemistry Full book pdf -> Class 12 Chemistry Full book pdf -> Class 13 Chemistry Full book pdf -> Class 14 Chemistry Full book pdf -> Class 15 Chemistry Full book pdf -> Class 16 Chemistry Full book pdf -> Class 17 Chemistry Full book pdf -> Class 18 Chemistry Full book pdf -> Class 19 Chemistry Full book pdf -> Cl- Cl bond is weaker than the C-C and C-H bond and hence, is easiest to break 19. Alkanes on heating with a regulated supply of dioxygen or air at high pressure and in the presence of suitable catalyst give a variety of oxidation product: i)When a mixture of methane and oxygen in the molar ratio of 9:1 is compressed to about 1100 atmospheres and passed through copper tubes at 575 K, methane is oxidised to methanol. The catalyst changes molecular hydrogen to atomic hydrogen which can break pi-bonds of alkenes or alkynes and will be added to them. i) Alkyl halides (except fluorides) on reduction with zinc and dilute hydrochloric acid give alkanes. (CH3)3CH + O alk.KMnO4 HCHO + H2O 23. Rate of replacement of hydrogen of alkanes is:3°>2°>1°. 20. 21. Decarboxylation reaction Kolbe's electrolytic method 9. Alkane isomerise to branched chain alkanes when heated with anhydrous aluminium chloride (AlCl3) and hydrogen chloride at 573 K under a pressure of about 30-35 atmosphere. • It is found that the rate of reaction of alkanes with halogen is F2>Cl2>Br2>I2. Types of substitution reactions 17. • The process of elimination of carbon dioxide from a carboxylate. LiAlH4 or NaBH4 could also be used as a reducing agent. 5) Preparation of alkanes by Decarboxylation of Mono-carboxylic Acids: Removal of a carboxylic group or CO2 is called decarboxylation. 22. Platinum and palladium catalyse the reaction at room tempreture. This salt on heating with soda lime loses its carboxylic group and produces alkane which is one carbon less than the acid. • PROPAGATION At anode:- TERMINATION At cathode:- 14. • The central carbon-carbon bond (C-C) s drawn as a straight line slightly tilted to right for the sake of clarity. Wurtz reaction of preparation of alkanes vith an even number of carbons. DECARBOXYLATION • Sodium salts of carboxylic acids on heating with soda lime (mixture of sodium hydroxide and calcium oxide) gives alkanes containing one carbon atom less than the carboxylic acid. An aqueous solution of sodium or potassium salt of a carboxylic acid on electrolysis gives alkanes on heating in the presence of air or dioxygen are completely oxidized to carbon dioxide and water with the evolution of large amount of heat. 3. CHARLES ADOLPH WURTZ 8. KOLBE'S ELECTROLYTIC METHOD 11. 4. The mixture of ethane and carbon dioxide obtained at the anode is made to pass through KOH(aq) solution, CO2 will be absorbed by the solution while ethane will pass on and will then be collected over the surface of the water. 3) Preparation of alkanes by Hydrolysis of Grignard Reagent: Alkyl Magnesium Halides (R - Mg - X) is called Grignard reagents. PAUL NEW MAN They are also called Paraffins. CH3CH2CH3 anhy.AlCl3,HCl CH3-CH-CH3 n-butane isopropane The alkanes containing six or more carbon atoms when heated at about 773K under high pressure of 10-20 atm in the presence of catalyst on alumina gel get converted to aromatic compounds. 2CH3OH ii) When methane is mixed with oxygen and passed through heated molybdenum oxide (Mo2O3), under pressure it is oxidised to methanal. Table of content By Hydrogenation of unsaturated hydrocarbons By Reduction of Alkyl HalidesBy Hydrolysis of Grignard ReagentBy Wurtz's ReactionBy Decarboxylic AcidsKolbe's Electrolysis Preparation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes by Hydrogenation of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes on alkanes of unsaturated hydrocarbons (Sabatier Sendern's reaction): Alkanes of unsaturated hydrocarbons (Sabatier platinum or palladium catalysts. Saw horse's projection, the molecule is viewed along the axis of the model from an oblique angle. The reaction stops after some time due to consumption of reactants and/or due to following side reaction: The possible chain terminating steps are: a) b) c) Though in (c) CH3-Cl, the one of the product is formed bur free radicals are consumed and the chain is terminated. The addition of hydrogen to alkenes or alkynes is called hydrogenation and is also called Sabatier-Sendern's Reaction or S-S Reaction. CLASSIFICATION OF ALKANES Alkanes are saturated hydrocarbon containing only carbon-carbon single bond in their molecule. INITIATION Here sodium or potassium salt of mono-carboxylic acid is carried out, alkanes are produced. For eg: 6. 2) Cycloalkanes or cyclic alkanes. Newman's projections • In this method, the molecule is viewed from the front along the carbon- carbon bond axis. In this process dihydrogen is passed through alkenes or alkynes in the presence of finely divided catalysts such as Raney Ni, Pt or Pd. These metals absorb dihydrogen gas on their surfaces and activate the hydrogen-hydrogen bond. 4) Preparation of alkanes by Wurtz's Reaction: Wurtz discovered this method in 1885. When carboxylic acids (or fatty acids) are treated with NaOH, the corresponding sodium salt of the acid is produced. Halogenation • This involves the replacement of one or more atoms of alkanes by the corresponding number of halogens atoms. Reaction mechanism of Kolbe's electrolytic method 13. While using Nickel, heating is required at 250-300oC but in the case of Platinum and palladium no heating is required at 250-300oC but in the case of Platinum and palladium no heating is required. AT THE CATHODE THERE IS REDUCTION OF WATER INTO HYDROGEN FREE RADICALS AND THAT IS CONVERTED INTO HYDROGEN AND GIVEN OFF. These are organometallic compounds. For eg: C3H8 C2H4 + CH4 or C3H6 + H2 This reaction of alkanes by Reduction of Alkyl Halides: Molecular hydrogen cannot reduce alkyl halides and gives alkanes. However, higher tempreture (523-573k) and pressure are required with nickle catalysts. 2CH4 + O2 Cu/575K/1100 atm. On passing a mixture of steam and methane over heated nickle (supported over alumina, Al2O3) catalyst at 1273 K, methane is oxidised to carbon monoxide and hydrogen is evolved. Therefore alkyl halides are treated with Zinc in presence of dil HCl, nascent hydrogen is produced which reduces alkyl halides to corresponding alkanes. CONFORMATIONS Newman's projections Saw horse projections 26. Alkanes undergo substitution reaction in which one or more hydrogen atoms are replaced or substituted by different atoms or groups such as halogen atom (Cl, Br or I), nitro group(-NO2) or sulphonic acid (-SO H) group. • This METHOD IS USED FOR THE REDUCTION OF CO2.

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