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Heterocyclic chemistry lecture notes

Heterocyclic Chemistry. Instructor: Prof. D. R. Mal, Department of Chemistry, IIT Kharagpur. This course talks about heterocyclic chemistry. Topics covered in this course include Definition of heteroatom and alkaloids, Nomenclature of heterocyclic compounds, Effect of heteroatoms on organic reactions: comparison with carbogenic compounds, Aromatic heterocyclic chemistry, Non-aromatic heterocyclic chemistry, and Miscellaneous group. (from nptel.ac.in) Lecture 37 - Pyridine Synthesis Go to the Course Home or watch other lectures: CSIR UGC NET Hand Written Notes M.Sc. Notes Organic Chemistry 31/05/202031/05/2020 Chemistry ABC 0 Comments Heterocyclic Chemistry, Isoquinoline and Indole., Pyrrole, QuinolineM.Sc Chemistry Hetero Cyclic Lecture Notes Free Download, Heterocyclic Chemistry, Pyrrole, Quinoline, Isoquinoline and Indole.Quinoline is a heterocyclic aromatic organic compound with the chemical formula C9H7N.Quinoline (benzo[b]pyridine) is a fused heterocyclic system consisting of a benzene ring fused with pyridine cycle. It can be also considered as the heterocyclic analogue of naphthalene (1-azanaphthalene).Systematic IUPAC name: 1-Benzopyridine; Benzo[b]pyridine; Benzo[b]azine; Benzo[b]azabenzene.Other names: 1-Azanaphthalene; 1-Benzazine; Benzazine; Benzazabenzene; Benzopyridine; Quinolin; Chinoline; Chinoline; Chinoline; Leucol; Leukol; Leucoline.Quinoline is a colourless liquid with an unpleasant odour and boiling point 237OC. It is miscible with water, ethanol and ether; it may be distilled by steam distillation.Structure of Quinoline:All ring atoms in Quinoline are SP2 hybridize.The nitrogen lone pair electrons reside in an SP2 orbital and not involved in the formation of the delocalized π molecular orbital.It shows aromatic properties because its π orbital contains ten electrons & satisfied the Huckel's rule ($n = 2$ is $4n+2$).The resonance of QuinolineSynthesis of Quinoline (Skraup Synthesis)Step I: Glycerol undergoes dehydration with sulfuric acid to give AcroleinStep II: Aniline adds to Acrolein (1,4-addition)Step III: Undergoes ring closureStep IV: Oxidation of 1,2-DihydroquinolineChemical properties of QuinolineThe most typical reactions for quinoline are:i. Heteroatom reactionsii. Electrophilic and nucleophilic substitution reactions;iii. Oxidation and reduction.Electrophilic and nucleophilic substitution reactions:Electrophilic substitution reactions occur on the ring C-atoms, mainly on those of the more activated benzene moiety. Nucleophilic substitution of quinoline occurs in the electron deficient pyridine ring, as a rule in the position 2 or 4.Electrophilic substitution reactions occur in positions 5 and 8 of quinoline. Treatment of quinoline with nitrating mixture results in 5and 8-nitroquinolines. Sulphonation of quinoline produces different products depending on the reaction temperature. At 220°C quinoline8sulphonic acid is formed predominantly; At 300°C, quinoline6sulphonic acid is the sole product. When heating to 300°C quinoline8sulphonic acid is converted into quinoline6sulphonic, which is the thermodynamically favoured Sulphonation product.Classification – Aromatic Five-MemberedClassification-Aromatic Six-MemberedReactivity of Quinoline & IsoquinolineFuran is a heterocyclic organic compound. It consist of a five-membered aromatic ring with four carbon atoms and one oxygen. Chemical compounds containing such rings are also referred to as furans. Furan is a colorless, flammable, highly volatile liquid with a boiling point close to room temperature. Download M.Sc Chemistry Class Notes Of Hetero CyclicAbout Chemistry ABC“ChemistryABC.com has always been very supportive of the Science community. Membership feels like a huge effort towards a strong, diverse community of people who care about their Education. Highly recommended for every Student & Tutor who wants to learn and connect — even those who don't like Chemistry.”View all posts by Chemistry ABC | Website heterocyclic chemistry lecture notes ppt. heterocyclic chemistry lecture notes pdf

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