Mindluster Platform

About the course New Organic Chemistry

Now the modern definition of organic chemistry is stated as: â€œOrganic chemistry is considered to be a subdiscipline in chemistry that involves the scientific analysis of the properties, reactions and structure of all organic compounds as well as organic materials (present in varying forms containing C (carbon) atoms.â€

Science Category's Courses

Course Lesson(176)

Lesson 1 : **Organic Chemistry Basic Introduction**

Lesson 2 : **Introduction to Organic Chemistry**

Lesson 3 : **Organic Chemistry Tutor Youtube Channel Membership**

Lesson 4 : **Organic Chemistry How To Draw Lewis Structures**

Lesson 5 : **Ionic Bonds Polar Covalent Bonds and Nonpolar Covalent Bonds**

Lesson 6 : **Which Bond Is More Polar**

Lesson 7 : **Formal Charge**

Lesson 8 : **Predicting Bond Angles**

Lesson 9 : **Kekule Structures and Condensed Structures**

Lesson 10 : **VSEPR Theory Basic Introduction**

Lesson 11 : **Molecular Geometry VSEPR Theory Basic Introduction**

Lesson 12 : **Valence Bond Theory Hybrid Atomic Orbitals**

Lesson 13 : **Valence Bond Theory Hybrid Atomic Orbitals Membership**

Lesson 14 : **Hybridization of Atomic Orbitals Sigma Pi Bonds Sp Sp2 Sp3**

Lesson 15 : **Hybridization of Atomic Orbitals Sigma Pi Bonds Sp Sp2 Sp3 Membership**

Lesson 16 : **Bond Strength and Bond Length**

Lesson 17 : **Dipole Moment Molecular Polarity Percent Ionic Character**

Lesson 18 :
Intermolecular Forces Hydrogen Bonding Dipole Dipole Interactions Boiling Point Solubility

Lesson 19 : **Resonance Structures**

Lesson 20 : **Resonance Structures Membership**

Lesson 21 : **pKa Ka and Acid Strength**

Lesson 22 : **Acids and Bases Basic Introduction Organic Chemistry**

Lesson 23 : **Acids and Bases Basic Introduction Organic Chemistry Membership**

Lesson 24 : **How To Predict The Reactant and Reagent of Acid Base Reactions**

Lesson 25 : **Lewis Acids and Bases**

Lesson 26 : **Nucleophiles and Electrophiles**

Lesson 27 : **Hydrocarbons Aliphatic vs Aromatic Molecules Saturated Unsaturated Compounds**

Lesson 28 : **Functional Groups**

Lesson 29 :
Organic Chemistry Drawing Structures Bond Line Skeletal and Condensed Structural Formulas

Lesson 30 : **Constitutional Isomers**

Lesson 31 : **IUPAC Nomenclature of Alkanes Naming Organic Compounds**

Lesson 32 : **IUPAC Nomenclature of Alkanes Naming Organic Compounds Membership**

Lesson 33 : **Naming Cycloalkanes With Substituents Cis Trans Bicyclo Alkane Nomenclature**

Lesson 34 : **Naming Bicyclic Compounds**

Lesson 35 :
Naming Ethers IUPAC Nomenclature With Branching Organic Chemistry Practice Problems

Lesson 36 : **Naming Alcohols IUPAC Nomenclature**

Lesson 37 : **Naming Alkyl Halides IUPAC Nomenclature**

Lesson 38 : **Naming Amines IUPAC Nomenclature Common Names**

Lesson 39 : **Van Der Waals Forces**

Lesson 40 : **Boiling Point of Organic Compounds**

Lesson 41 : **Newman Projections**

Lesson 42 : **Newman Projections Membership**

Lesson 43 : **Stability of Cycloalkanes Angle Strain**

Lesson 44 : **Chair Conformation and Ring Flips**

Lesson 45 : **Chair Conformations and Ring Flips Membership**

Lesson 46 : **Cis and Trans Isomers**

Lesson 47 : **Finding Chirality Centers**

Lesson 48 : **Stereochemistry R S Configuration Fischer Projections**

Lesson 49 : **Stereochemistry R and S Configuration Fischer Projections Membership**

Lesson 50 : **Enantiomers**

Lesson 51 : **Diastereomers**

Lesson 52 : **Meso Compounds**

Lesson 53 : **Stereoisomers**

Lesson 54 : **Optical Activity Specific Rotation Enantiomeric Excess Stereochemistry Youtube**

Lesson 55 : **Optical Activity Specific Rotation Enantiomeric Excess Stereochemistry Membership**

Lesson 56 : **SN2 SN1 E1 E2 Reaction Mechanisms Made Easy**

Lesson 57 : **SN2 SN1 E1 E2 Reaction Mechanisms Made Easy Membership**

Lesson 58 : **SN2 Reaction Mechanisms**

Lesson 59 : **SN2 Reaction Mechanisms Membership**

Lesson 60 : **SN1 Reaction Mechanism**

Lesson 61 : **SN1 Reaction Mechanisms Membership**

Lesson 62 : **Carbocation Stability Hyperconjugation Inductive Effect Resonance Structures**

Lesson 63 : **Carbanion Stability**

Lesson 64 : **Polar Protic Solvents and Polar Aprotic Solvents For SN1 SN2 Reactions**

Lesson 65 : **E1 Reaction Mechanism With Alcohol Dehydration Ring Expansion Problems**

Lesson 66 : **E2 Reaction Mechanism Hoffman Elimination vs Zaitsev s Rule**

Lesson 67 : **E2 Stereochemistry With Newman Projections**

Lesson 68 : **SN1 SN2 E1 E2 Reaction Mechanism Test Review**

Lesson 69 : **SN1 SN2 E1 E2 Reaction Mechanisms Practice Test Review Membership**

Lesson 70 : **Naming Alkenes Using E Z System IUPAC Nomenclature**

Lesson 71 : **Degree of Unsaturation and Index of Hydrogen Deficiency**

Lesson 72 : **Alkene Reactions**

Lesson 73 : **Alkene Reactions Part 1 Membership**

Lesson 74 : **Alkene Reactions Part 2 Membership**

Lesson 75 : **Hydrohalogenation Alkene Reaction Mechanism**

Lesson 76 : **Markovnikov s Rule**

Lesson 77 : **Alkene HBR ROOR Reaction Mechanism**

Lesson 78 : **Hydration of Alkenes Reaction Mechanism**

Lesson 79 : **Alkene H2SO4 H2O**

Lesson 80 : **Oxymercuration Demercuration Reaction Mechanism**

Lesson 81 : **Alkoxymercuration Demercuration Reaction Mechanism**

Lesson 82 : **Hydroboration Oxidation Reaction Mechanism**

Lesson 83 : **Halogenation of Alkenes Halohydrin Formation Reaction Mechanism**

Lesson 84 : **Alkene Br2 H2O**

Lesson 85 : **Epoxidation of Alkenes**

Lesson 86 : **Alkene KMnO4 Reaction**

Lesson 87 : **Ozonolysis Oxidative Cleavage of Alkenes**

Lesson 88 : **Naming Alkynes IUPAC Nomenclature Common Names**

Lesson 89 : **Alkyne Reactions**

Lesson 90 : **Alkyne Reactions Membership**

Lesson 91 : **Alcohol Reactions HBr PBr3 SOCl2**

Lesson 92 : **Alcohol Reactions HBr PBr3 SOCl2 Membership**

Lesson 93 : **Alcohol Dehydration Reaction Mechanism With H2SO4**

Lesson 94 : **Free Radical Reactions**

Lesson 95 : **Free Radical Reactions Basic Introduction Membership**

Lesson 96 : **Organic Chemistry 1 Final Exam Review**

Lesson 97 : **Organic Chemistry 1 Final Exam Review Part 2 Membership**

Lesson 98 : **Organic Chemistry 1 Final Exam Review Part 3 Membership**

Lesson 99 : **Williamson Ether Synthesis Reaction Mechanism**

Lesson 100 : **Ether and Epoxide Reactions**

Lesson 101 : **Ether and Epoxide Reactions Membership**

Lesson 102 : **Kinetic vs Thermodynamic Product 1 2 vs 1 4 Addition of HBr to 1 3 Butadiene**

Lesson 103 :
Kinetic vs Thermodynamic Product 1 2 vs 1 4 Addition of HBr to 1 3 Butadiene Membership

Lesson 104 : **Diels Alder Reaction**

Lesson 105 : **Diels Alder Reaction Membership**

Lesson 106 : **Aromatic Antiaromatic or Nonaromatic Huckel s Rule 4n 2 Heterocycles**

Lesson 107 : **Aromatic Antiaromatic or Nonaromatic Huckel s Rule 4n 2 Heterocycles Membership**

Lesson 108 : **Naming Carboxylic Acids IUPAC Nomenclature**

Lesson 109 :
Naming Esters IUPAC Nomenclature Branches Substituents Benzene Rings Organic Chemistry

Lesson 110 : **Naming Acid Anhydrides and Nitriles IUPAC Nomenclature**

Lesson 111 : **Naming Acid Chlorides With IUPAC Nomenclature**

Lesson 112 : **Naming Amides IUPAC Nomenclature**

Lesson 113 : **Carboxylic Acid Derivative Reactions**

Lesson 114 : **Carboxylic Acid Derivative Reactions Membership**

Lesson 115 : **Naming Aldehydes IUPAC Nomenclature**

Lesson 116 : **Naming Ketones Explained IUPAC Nomenclature**

Lesson 117 :
NaBH4 LiAlH4 DIBAL Reduction Mechanism Carboxylic Acid Acid Chloride Ester Ketones

Lesson 118 : **Grignard Reagent Reaction Mechanism**

Lesson 119 : **Gilman Reagent Organocuprates**

Lesson 120 : **Aldehydes and Ketones**

Lesson 121 : **Wolff Kishner Reduction Mechanism**

Lesson 122 : **Keto Enol Tautomerism Acidic Basic Conditions**

Lesson 123 : **Alpha Halogenation of Ketones**

Lesson 124 : **Imine and Enamine Formation Reactions With Reductive Amination**

Lesson 125 : **Protecting Groups Acetals and Hemiacetals**

Lesson 126 : **Wittig Reaction Mechanism**

Lesson 127 : **Naming Benzene Ring Derivatives Aromatic Compounds**

Lesson 128 : **Aromatic Halogenation Mechanism Chlorination Iodination Bromination of Benzene**

Lesson 129 : **Nitration of Benzene Mechanism Electrophilic Aromatic Substitution Reactions**

Lesson 130 : **Sulfonation of Benzene Desulfonation Reaction Mechanism Aromatic Compounds**

Lesson 131 : **Friedel Crafts Acylation of Benzene Reaction Mechanism**

Lesson 132 : **Gatterman Koch Reaction**

Lesson 133 : **Friedel Crafts Alkylation of Benzene Reaction Mechanism Tons of Examples**

Lesson 134 : **Clemmensen Reduction Wolff Kishner Mechanism**

Lesson 135 : **Benzene Side Chain Reactions**

Lesson 136 : **Ortho Meta Para Directors Activating and Deactivating Groups**

Lesson 137 : **Nitration of MethylBenzoate and Nitration of Bromobenzene**

Lesson 138 : **Ortho Para Ratio Aromatic Nitration of Toluene**

Lesson 139 : **Electrophilic Aromatic Substitution Reactions Made Easy**

Lesson 140 : **Nucleophilic Aromatic Substitution Benzyne Intermediate and Meisenheimer Complex**

Lesson 141 : **Arenediazonium Salts With Diazo Coupling and Sandmeyer Reactions**

Lesson 142 : **Enolate Reactions Direct Alkylation of Ketones With LDA**

Lesson 143 :
Aldol Addition Reactions Intramolecular Aldol Condensation Reactions Retro Aldol Cross Aldol Rea

Lesson 144 : **Cannizzaro Reaction Mechanism**

Lesson 145 : **Michael Addition Reaction Mechanism**

Lesson 146 : **Robinson Annulation Reaction Mechanism**

Lesson 147 : **Stork Enamine Reaction Mechanism Alkylation Acylation Michael Addition**

Lesson 148 : **Claisen Condensation Reaction Mechanism**

Lesson 149 : **Dieckmann Condensation Reaction Mechanism**

Lesson 150 : **Malonic Ester Synthesis Reaction Mechanism**

Lesson 151 : **Acetoacetic Ester Synthesis Reaction Mechanism**

Lesson 152 : **Decarboxylation Reaction Mechanism**

Lesson 153 : **Amine Synthesis Reactions**

Lesson 154 :
Aromatic Compounds Heterocycles Nucleophilic Electrophilic Aromatic Substitution Reactions

Lesson 155 : **Introduction to Organometallic Compounds**

Lesson 156 : **Carbohydrates Haworth Fischer Projections With Chair Conformations**

Lesson 157 : **Organic Chemistry Reactions Summary**

Lesson 158 : **Organic Chemistry Reaction Mechanisms Addition Elimination Substitution Rearrangement**

Lesson 159 : **IR Spectroscopy Basic Introduction**

Lesson 160 : **IR Spectroscopy Practice Problems**

Lesson 161 : **Mass Spectrometry**

Lesson 162 : **Mass Spectrometry Membership**

Lesson 163 : **Shielding and Deshielding H NMR Spectroscopy**

Lesson 164 : **Basic Introduction to NMR Spectroscopy**

Lesson 165 : **How To Determine The Number of Signals In a H NMR Spectrum**

Lesson 166 : **Chemical Shift In NMR Spectroscopy**

Lesson 167 : **Diamagnetic Anisotropy H NMR Spectroscopy Organic Chemistry**

Lesson 168 : **Integration of H NMR Signals Spectroscopy Organic Chemistry**

Lesson 169 : **Spin Spin Splitting N 1 Rule Multiplicity Proton NMR Spectroscopy**

Lesson 170 : **How To Draw The Proton NMR Spectrum of an Organic Molecule**

Lesson 171 : **Proton NMR Spectroscopy How To Draw The Structure Given The Spectrum**

Lesson 172 : **Proton NMR Spectroscopy How To Draw The Structure Given The Spectrum Membership**

Lesson 173 : **Carbon 13 NMR Spectroscopy**

Lesson 174 : **Introduction to Statistics**

Lesson 175 : **Organic Chemistry 2 Final Exam Review Multiple Choice Problems Membership**

Lesson 176 : **Organic Chemistry 1 2 Study Guide Final Exam Review**

Related courses

Geography

Organic Chemistry

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