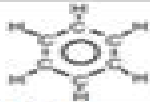


Functional Group	General Formula	Prefix / Suffix	Example	Structural Formula
Alkene	$R-C=C-R'$	-ene	Propene	CH_3CHCH_2
Alkyne	$R-C\equiv C-R'$	-yne	Propyne	CH_3CCH
Arene*		-benzene	Methylbenzene	$C_6H_6CH_3$
Haloalkane	$R-X$ (X is halogen)	Fluoro-, chloro- etc.	Chloromethane	CH_3Cl
Nitrile	$R-C\equiv N$	-nitrile	ethanenitrile	CH_3CN
Alcohol	$R-O-H$	Hydroxy- -ol	Ethanol 2-hydroxypropene	C_2H_5OH $CH_3C(OH)CH_3$
Ketone	$R-\overset{\overset{O}{\parallel}}{C}-R'$	-one	propanone	CH_3COCH_3
Aldehyde	$R-\overset{\overset{O}{\parallel}}{C}-H$	-al	propanal	CH_3CH_2COH
Acyl Chloride	$R-\overset{\overset{O}{\parallel}}{C}-Cl$	-oyl chloride	Ethanoyl Chloride	CH_3COCl
Carboxylic Acid	$R-\overset{\overset{O}{\parallel}}{C}-O-H$	-oic acid	Ethanoic acid	CH_3COOH
Carboxylate Salt	$R-\overset{\overset{O}{\parallel}}{C}-O^-Na^+$	Sodium-...oate	Sodium Ethanoate	CH_3COONa
Ester*	$R-\overset{\overset{O}{\parallel}}{C}-O-R'$	-oate	Propyl ethanoate	$CH_3COOCH_2CH_2CH_3$
Anhydride	$R-\overset{\overset{O}{\parallel}}{C}-O-\overset{\overset{O}{\parallel}}{C}-R'$	-oic anhydride	Ethanoic Anhydride (Always symmetrical)	$CH_3COOCOCH_3$
Amine	$R-N\begin{matrix} H \\ / \\ H \end{matrix}$	Amino- -amine	Ethylamine Aminoethene	$CH_3CH_2NH_2$ NH_2CHCH_2
Amide	$R-\overset{\overset{O}{\parallel}}{C}-N\begin{matrix} H \\ / \\ H \end{matrix}$	-amide	Ethanamide	CH_3CONH_2
N – substituted amide	$R-\overset{\overset{O}{\parallel}}{C}-N\begin{matrix} R' \\ / \\ H \end{matrix}$	N-...amide	N-ethylethanamide	$CH_3CONHCH_2CH_3$

Naming Organic Compounds Chemguide

Edward Hugh Tinley



Naming Organic Compounds Chemguide:

Pheromones and Animal Behavior Tristram D. Wyatt, 2014-01-23 Pheromones and other kinds of chemical communication underlie the behavior of all animals Building on the strengths of the first edition widely recognized as the leading text in the subject this is a comprehensive overview of how pheromones work Extensively revised and expanded to cover advances made over the last ten years the book offers a thorough exploration of the evolutionary and behavioral contexts of chemical communication along with a detailed introduction to the molecular and neural basis of signal perception through olfaction At a time of ever increasing specialization Wyatt offers a unique synthesis integrating examples across the animal kingdom A final chapter critically considers human pheromones and the importance of olfaction to human biology Its breadth of coverage and readability make the book an unrivaled resource for students and researchers in a range of fields from chemistry genetics genomics molecular biology and neuroscience to ecology evolution and behavior *A Foundation Course for College Organic Chemistry* B. S. Balaji, 2024-08-22 To understand and improve the underlying principles that govern how organic reactions occur A Foundation Course for College Organic Chemistry follows a brick by brick building approach Emphasis is given to interrelating experimental facts and findings with predictions mechanism and inferences results Discussions focus on clarifying how complex organic reactions occur which is based on electronegativity differences movement of electrons through framework or bonds and addition or removal of atoms hydrogen halogens or groups hydroxy amino The book begins with simple rules governing the deconstruction of reactions and applies them to explain how esterification amide and cyanide hydrolysis reactions proceed The importance of stereochemistry used in drug development biology and medicine aromatic electrophilic and nucleophilic substitutions reaction kinetics and dynamics is explained with suitable examples Features A systematic and structured approach is used to study all aspects of reactive intermediates generation structure geometry and reactions of carbocations carbanions and carbon free radicals This book incorporates scientific methods to deduce reaction mechanisms with simple and relevant explanations and limitations A proper explanation is given to understand the influence of functional groups on the stability and reactivity of intermediates pKa HSAB principles structure activity relations and how these can be exploited in organic chemistry Information is presented in an accessible way for students teachers researchers and scientists *Pharmaceutical Chemistry* Jill Barber, Chris Rostron, 2013-07-25 This volume provides a wide ranging overview of organic chemistry as applied to the study and practice of pharmacy Drugs are simply chemicals so to fully understand their manufacture formulation and the way they work in our bodies an understanding of organic compounds and their reactions is essential **Encyclopedia of Astrobiology** Muriel Gargaud, Ricardo Amils, 2011-05-26 Astrobiology is a remarkably interdisciplinary field This reference serves as a key to understanding technical terms from the different subfields of astrobiology including astronomy biology chemistry the geosciences and the space sciences *Fachenglisch für Laborberufe* Steven L. Hanft, 2015-09-15 Mit fortschreitender

Globalisierung von Waren und Dienstleistungen h lt an immer mehr Arbeitspl tzen in Chemie Pharma und Biotech Branche die englische Sprache Einzug In der Schule hat man zwar gelernt sich ber Alltagsthemen zu unterhalten aber wenn es darum geht dem Kundendienst am Telefon die Fehlfunktion des teuersten Ger ts im Labor zu beschreiben kommt doch so mancher ins Schwitzen Nach einer Einf hrung in der die wichtigsten Besonderheiten der englischen Sprache aus Sicht eines deutschen Sprechers rekapituliert werden behandelt der Autor in 14 Lektionen Schritt f r Schritt den Spezialwortschatz und fachspezifische Sprach und Schreibformen Die Themen reichen von mathematischen Ausdr cken ber chemische Nomenklatur Biomolek le Versuchstiere und Prozesstechnik bis hin zum Umgang mit Regulierungsbeh rden und Audits Gespr chssituationen wie der Anruf beim Kundendienst die Vorstellung beim neuen Chef oder das Kundengespr ch am Messestand werden analysiert und einge bt Mit direktem Bezug zur Berufspraxis geht dieser Sprachf hrer ber herk mmliche Englischkurse weit hinaus und bietet wertvolle Hilfe f r alle die im Beruf besser Englisch sprechen wollen Auch f r den fachbezogenen Sprachunterricht an Fachschulen und Hochschulen ist dieses Buch bestens geeignet Komplett mit bungen Tests und Rezepten wie man die h ufigsten Fehler vermeidet Das Buch ist auch als e Book mit Audiounterst tzung erh ltlich

The New Walford Guide to Reference Resources Ray Lester, 2005 The New Walford highlights the best resources to use when undertaking a search for accurate and relevant information saving you precious time and effort For those looking for a selective and evaluative reference resource that really delivers on its promise look no further In addition to print sources The New Walford naturally covers an extensive range of e reference sources such as digital databanks digital reference services electronic journal collections meta search engines networked information services open archives resource discovery services and websites of premier organizations in both the public and private sectors But rather than supplying a list of all available known resources as a web search engine might The New Walford subject specialists have carefully selected and evaluated available resources to provide a definitive list of the most appropriate and useful With an emphasis on quality and sustainability the subject specialists have been careful to assess the differing ways that information is framed and communicated in different subject areas As a result the resource evaluations in each subject area are prefaced by an introductory overview of the structure of the relevant literature This ensures that The New Walford is clear easy to use and intuitive Publisher **Manufacturing Chemist** ,1963 **Naming Organic Compounds** Edward Hugh Tinley, 1962

Manufacturing Chemist and Aerosol News ,1963 **Naming Organic Compounds** James E. Banks, 1976

Nomenclature of Organic Compounds: Principles and Practice Otis Clifford Dermer, Robert B. Fox, 1974 Poetry of Cabdillahi Suldaan Maxamed Timacadde **Naming Organic Compounds** Edward W. Godly, 1995 This user friendly guide provides quick systematic access to the complex procedure of naming new compounds It features a pull out chart which leads users to an appropriate numbered section where detailed instructions are provided Requires no background knowledge of current legislation Divides chapters according to structural classes Gives preferred IUPAC nomenclature For professional

organic chemists and all those concerned with the drafting of legislation involving chemicals **Organic Nomenclature**

James G. Traynham, 1966 Chemical nomenclature is essential for accurate and convenient communication of chemical information Accurate communication depends on names that identify substances precisely unambiguously and uniquely Convenient communication depends on names based on broadly applicable guidelines that are reasonably easily used beyond a single compound names that ideally convey identity even to a knowledgeable person encountering them for the first time

Naming Organic Compounds Jorgen Bisch, 1962 Naming Organic Compound Edward W. Godly, 1989 **Naming Organic Compounds** Wayne Don Fawcett, 1967 **Systematic Nomenclature of Organic Chemistry** D.

Hellwinkel, 2001-03-27 This text gives a short and general introduction to the systematic nomenclature of organic compounds It covers common compound classes and areas such as cyclophanes carbohydrates organometallic and isotopically modified compounds and stereochemical specifications are also dealt with **Organic Chemistry: The Name Game** Alex

Nickon, Ernest F. Silversmith, 2013-10-22 Organic Chemistry The Name Game Modern Coined Terms and their Origins is a lighthearted take on the usually difficult and systematic nomenclature found in organic chemistry However despite the lightheartedness the book does not lose its purpose which is to serve as a source of information on this particular subject of organic chemistry The book arranged into themes discusses some organic compounds and how they are named based on their structure makeup and components The text also explains the use of Greek and Latin prefixes in nomenclature and many other principles in nomenclature The book also includes an appendix that contains very useful information on nomenclature such as the etymology of certain element and chemical names numerical prefixes and the Greek alphabet The text is not only for students who wish to be familiarized with a different style of organic chemistry nomenclature but also for professors who aim to give students an enjoyable yet memorable learning experience *Naming Organic Compounds*, 1968

Nomenclature of Organic Chemistry International Union of Pure and Applied Chemistry. Commission on the Nomenclature of Organic Chemistry, 1979

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