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**Organic
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*A guide to organic
chemistry.*

Chemical nomenclature
Page 1/189

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is used to identify a chemical species by means of written or spoken words and enables a common language for communication amongst chemists. Nomenclature for chemical compounds additionally contains an explicit or implied relationship to the structure of the compound, in order that

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the reader or listener can deduce the structure from the name. This purpose requires a system of principles and rules, the application of which gives rise to a systematic nomenclature. Of course, a wide range of traditional names, semisystematic or trivial, are also in use for a core group of common compounds. Detailing the

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latest rules and international practice, this new volume can be considered a guide to the essential organic chemical nomenclature, commonly described as the "Blue Book". An invaluable source of information for organic chemists everywhere and the definitive guide for scientists working in academia or industry,

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*for scientific publishers
of books, journals and
databases, and for
organisations requiring
internationally approved
nomenclature in a legal
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*The Second Edition
demonstrates how
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using four
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proton, and
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organic
chemistry
requires

mastery in two
core aspects:
fundamental
concepts and
the skills
needed to
apply those
concepts and
solve

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Students must
learn to

become
proficient at
approaching
new situations
methodically,
based on a
repertoire of
skills. These
skills are

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vital for
successful
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solving in
organic
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Existing
textbooks
provide
extensive
coverage of
the principles

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but there is
far less
emphasis on
the skills
needed to
actually solve
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execution of
multi-step
synthetic
reactions,
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compounds and
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fundamental
principles of
conformation,
and stereochem
istry of
organic
molecules, and
reactive
intermediates
in organic
chemistry.

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concerns
general
principles of
mechanism in
organic
chemistry,
including
acids and
bases, photoch
emistry,

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sonochemistry
and microwave
irradiation.

The
relationship
between
structure and
reactivity is
also covered.
The final
chapters cover
the nature and

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million are

organic.

Organic

chemists are

currently

working to

produce better

polymers with

specific

properties,

such as

biodegradable

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plastics. The understanding of new drug structures from plants and the synthesis of improved pharmaceuticals is another area of great interest.

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chemists are
also

researching
the reactions
that occur in
living systems
and
understanding
the molecular
causes of
disease.

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and three
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clearly
evidence the

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first to get a
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of the
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process of a
product... Wei
ssermel/Arpe
has been

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serving me for
years as an
indispensable
reference
work.'

(Berichte der
Bunsengesellschaft für
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Chemie)

'Whether
student or

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scientist,
theorist or
practician -
everybody
interested in
industrial
organic
chemistry will
appreciate
this work.'

(farbe + lack)

'...it should

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be ready to
hand to every
chemist or
process
engineer
involved
directly or
indirectly
with
industrial
organic
chemistry . It

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should be in
the hand of
every higher-
graduate
student,
especially if
chemical
technology is
not part of
the study,
like in many
college univer

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of this complex
subject. Organic
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constantly
evolving field
that has great
relevance for all
scientists, not
just chemists. For
chemical***

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**engineers,
understanding
the properties of
organic
molecules and
how reactions
occur is critically
important to
understanding
the processes in
an industrial
plant. For
biologists and**

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health

professionals, it

is essential

because nearly

all of

biochemistry

springs from

organic

chemistry.

Additionally, all

scientists can

benefit from

improved critical

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***thinking and
problem-solving
skills that are
developed from
the study of
organic
chemistry.***

***Organic
chemistry, like
any "skill", is
best learned by
doing. It is
difficult to learn***

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***by rote
memorization,
and true
understanding
comes only from
concentrated
reading, and
working as many
problems as
possible. In fact,
problem sets are
the best way to
ensure that***

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underpinning this
fundamental
area. The book
builds in a logical
way from***

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**chemical bonding
to resulting
molecular
structures, to the
corresponding
physical,
chemical and
biological
properties of
those molecules.
The book
explores how
molecular**

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**structure
determines
reaction
mechanisms,
from the smallest
to the largest
molecules—which
in turn determine
strategies for
organic
synthesis. The
book then
describes the**

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synthetic principles which extend to every aspect of synthesis, from drug design to the methods cells employ to synthesize the molecules of which they are made. These relationships

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chapter on
organometallic
chemistry not
found in other
standard
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designed
specifically for
the one-semester
short course in
organic
chemistry, this
market leader
appeals to a
range of non-
chemistry science
majors through
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writing style,
approach, and
selection of
topics that
uniquely meet
the needs of the
short course. The
Thirteenth
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the science that underpins so much of our day-to-day lives, as well as present further study and practice in medical and scientific fields. This book provides context and structure for learning the fundamental principles of organic

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chemistry, enabling
the reader to
proceed from simple
to complex
examples in a
systematic and
logical way. Utilizing
clear and
consistently colored
figures, Principles of
Organic Chemistry
begins by exploring
the step-by-step
processes (or

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mechanisms) by
which reactions

occur to create
molecular

structures. It then

describes some of

the many ways

these reactions

make new

compounds,

examined by

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and corresponding

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compounds that
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between general and
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questions similar to
apptitude exams for
professional

schools, including
the Medical College
Admissions Test
(MCAT) and Dental
Aptitude Test (DAT)
to help in the
preparation for
these important
exams. Rather than
categorize content
information by

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functional groups,
Second Language
which often stresses

memorization, this

textbook instead

divides the

information into

reaction types. This

approach bridges

the gap between

general and organic

chemistry and helps

students develop a

better

understanding of

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the material. A manual of possible solutions for chapter problems for instructors and students is available in the supplementary websites. This important book: • Provides an in-depth study of organic compounds with division by reaction

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types that bridges
the gap between
general and organic
chemistry • Covers
the concepts
needed to
understand organic
chemistry and
teaches how to
apply them for
problem-solving •
Puts a focus on the
relevance of organic
chemistry to the

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environment,
industry, and
biological and
medical sciences •

Includes multiple
choice questions
similar to aptitude
exams for

professional
schools Written for
students of organic
chemistry, Organic
Chemistry:

Concepts and

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Applications is the comprehensive text that presents the material in clear terms and shows how to apply the concepts to problem solving.

This comprehensive laboratory text provides a thorough introduction to all of the significant operations used in

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the organic lab and includes a large selection of traditional-scale and microscale experiments and minilabs. Its unique problem-solving approach encourages students to think in the laboratory by solving a scientific problem in the

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process of carrying
out each

experiment. The

Second Edition

contains a new

introductory

section, "Chemistry

and the

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which includes a

discussion of the

principles of green

chemistry. Several

green experiments

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have been added,
and some
experiments from
the previous
editions have been
revised to make
them greener.

From models to
molecules to mass
spectrometry-solve
organic chemistry
problems with ease
Got a grasp on the
organic chemistry

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terms and concepts
you need to know,
but get lost halfway
through a problem
or worse yet, not
know where to
begin? Have no fear
- this hands-on
guide helps you
solve the many
types of organic
chemistry problems
you encounter in a
focused, step-by-

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**Environmental
Inorganic Chemistry
for Engineers**
explains the
principles of
inorganic
contaminant
behavior, also
applying these
principles to explore
available
remediation
technologies, and
providing the

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**design, operation,
and advantages or
disadvantages of
the various
remediation
technologies.
Written for
environmental
engineers and
researchers, this
reference provides
the tools and
methods that are
imperative to protect**

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Book's three-part
treatment starts with
a clear and rigorous
exposition of
metals, including
topics such as
preparations,
structures and
bonding, reactions
and properties, and
complex formation
and sequestering.

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This coverage is followed by a self-contained section concerning complex formation, sequestering, and organometallics, including hydrides and carbonyls. Part Two, Non-Metals, provides an overview of chemical periodicity and the

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**fundamentals of
their structure and
properties. Clearly
explains the
principles of
inorganic
contaminant
behavior in order to
explore available
remediation
technologies
Provides the design,
operation, and
advantages or**

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**disadvantages of
the various
remediation
technologies
Presents a clear
exposition of
metals, including
topics such as
preparations,
structures, and
bonding, reaction
and properties, and
complex formation
and sequestering**

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factors that govern
the processes that
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organic chemicals in
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quantitatively**

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and transformations
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sections Contains
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**examples, problems
and case studies**

**Examines the
fundamental
aspects of organic,
physical and**

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chemists, the major
classes of
compounds, and top
trouble spots. You'll
also get the nuts
and bolts of tackling
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sneaky tricks that
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addition, acyl
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reaction and
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*course or a needed
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and organized for
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language is not
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of the words used
are drawn from the*

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most common

English words; the

remaining 20%

includes necessary

technical words,

common chemistry

terms, and well-

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words (per the

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*areas. Focused on a
limited number of
functional classes,*

*Organic Chemistry
Concepts: An EFL
Approach*

*introduces those
organic compounds
early in the book.*

*Once readers have a
foundation of the
concepts and*

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*language of organic
chemistry, they can
build from that
knowledge and work
with relatively
complex molecules,
such as some
natural product
types covered in a
later chapter. The
book describes basic
level reaction*

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*mechanisms when
instructive, and
illustrations
throughout to
emphasize the 3D
nature of organic
chemistry. The book
includes multiple
pedagogical
features, such as
chapter questions
and useful*

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*appendices, to
support reader
comprehension.*

*Covers all primary
concepts in
accessible language
and pedagogical
features, worked
examples, glossary,
chapter questions,
illustrations, and
useful summaries*

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of key material
through a*

structured

framework from

which readers can

expand their

understanding

Contains class-

tested content

written in a

straightforward and

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accessible manner
for non-native
English speakers

*This book is
designed for
students of biology,
molecular biology,
ecology, medicine,
agriculture, forestry
and other
professions where
the knowledge of*

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*organic chemistry
plays the important
role. The work may
also be of interest to
non-professionals,
as well as to
teachers in high
schools. The book
consists of 11
chapters that cover:
- basic principles of
structure and*

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*constitution of
organic compounds,
- the elements of the
nomenclature, - the
concepts of the
nature of chemical
bond, -
introductions in
NMR and IR
spectroscopy, - the
concepts and main
classes of the*

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*organic reaction
mechanisms, -
reactions and
properties of
common classes or
organic compounds,
- and the
introduction to the
chemistry of the
natural organic
products followed by
basic principles of*

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*the reactions in
living cells.*

*The first edition of
this book was
welcomed with great
enthusiasm by
teachers and
students. It
therefore seemed
opportune to
publish a second,
revised, updated and*

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extended edition.

*Unfortunately,
Professor Fèlix*

*Serratosà died
before he could
complete this task.*

*Some new material
has been added, the
more significant
changes being:. The
book has been
restructured into*

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*two well-
differentiated
sections: Part A,
dealing with
conventional
organic synthesis,
and Part B, devoted
exclusively to
computer-assisted
organic synthesis
and based on the
former Chapter 11*

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*and Appendices 2, 3
and 4 of the first
edition. As decided
in advance, Part B
was to be the sole
responsibility of Dr.
Josep Xicart, who
prepared the first
versions of the
CHAOS
(Computerisation
and Heuristics*

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*Applied to Organic
Synthesis) program
under the direction
of Professor
Serratos.*

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Chemistry is a
handy guide for
chemistry students
preparing for
Advanced Level*

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*certificates. The
nature of organic
chemistry,
compared with that
of inorganic
chemistry, is
basically the
chemistry of carbon.
The book focuses on
the arrangements
and changes of the
atoms inside the*

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carbon molecules.

*The molecular
formulas of organic
compounds are
therefore studied,
including alkanes
and their derivatives
known as aliphatic
or fatty acids, as
well as the
hydrocarbons of the
benzene series and*

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*derivatives known
as the aromatic
compounds. The
aliphatic amines as
derivatives of
ammonia resulting
from the
substitution of the
hydrogen atoms by
alkyl groups are
described. The
formula for*

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*methane, although
at present is
convenient for
general purposes, is
shown to be not a
true representative
of the actual
arrangement in
which four H
radicals are grouped
around the carbon
atom. Castor oil,*

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*linseed, and other
drying oils are also
examined in terms
of their glyceride (of
other long chain
unsaturated acids)
content.*

*Carbohydrates,
divided as
monosaccharides,
polysaccharides,
and glycosides, are*

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*discussed as to their
empirical
composition. The
several methods and
reagents for
synthesizing organic
compounds are
explained, using the
simple aliphatic
organic compounds
as an example. The
aromatic series of*

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*organic compounds,
such as the benzene
series of*

*hydrocarbons, and
the aromatic
sulfonic acids,
phenols, and ethers
are then analyzed.*

*This book is suitable
for students of
organic chemistry
and for those*

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*preparing for tests
in the General
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Education and for
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*can find this guide
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mechanism
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questions, and
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*chemistry based on
a broader and
simplified use of
quantum chemistry
theories and notions
of some statistical
thermodynamic
concepts aiming to
enrich the learning
process of the
organic molecular
properties and
organic reactions. A*

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*detailed physical
chemistry approach
to teach organic
chemistry for
undergraduate
students is the main
aim of this book. A
secondary objective
is to familiarize
undergraduate
students with
computational
chemistry since*

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*most of illustrations
of optimized
geometries (plus
some topological
graphs) and
information is from
quantum chemistry
outputs which will
also enable
students to obtain a
deeper
understanding of
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