Benefits of using Science of Synthesis

Save time when planning a synthesis

Between a concise list of reliable organic transformations and applicable methods, hand-selected by experts in the field

Find the right synthetic route quickly

The full-text experts help you to find out immediately which synthetic methods are useful for a particular route or not

Start with a synthesis immediately

Practical and reliable experimental procedures can be implemented easily in the lab

Get a comprehensive overview of the field or a certain topic

All methods are organized in a logical, consistent structure by functional group and presented in the context of a review

Under the guidance of an international Editorial Board composed of distinguished chemists, over 1,000 authors have contributed to science of Synthesis. They follow the latest developments in organochemistry and make their expertise available to you. You will find the latest literature of relevance and select the most reliable and effective methods in organic syntheses.

All authors are listed at www.thieme-chemistry.com/sos-authors

Recommended by leading experts

“Science of Synthesis is an indispensable source of chemical information organized in an intuitive and logical way. It contains references on nearly every aspect of chemical reactivity and, for me, is the ‘go-to’ resource for rapidly learning about a new area. It’s an invaluable preparation for classes and for finding papers. It simply gives me the information I need far more easily than any search engine is capable of – and very often contains references and insight that cannot be found anywhere else.”

Prof. Philip B. Marcus
The Scripps Research Institute
La Jolla, USA

“Science of Synthesis is the first place I would look before embarking on a synthesis. It has the most authoritative and editorial rigor to put together the Science of Synthesis. As a past author and current volume editor, I completely appreciate the scientific and editorial rigor to put together the Science of Synthesis. It is the most authoritative and updated reviews and compilation of reactions and materials. Science of Synthesis is by far the best handbook before embarking on a synthesis.”

Dr. Ji-Park Li
Department of Chemistry
Princeton, USA

“Today’s scientific community must struggle to find ways to effectively digest and filter the flood of information into new knowledge. Science of Synthesis does this superbly well with carefully selected content and synthetic organic chemistry that has been written and edited by leading authorities from around the world. Science of Synthesis is a must-have for all universities and research institutions involved in material synthesis.”

Prof. Rongping Bu
Fudan University
China

“The phenomenal success of organic chemistry in developing new reactions has made it increasingly difficult to find the best procedures and protocols. Science of Synthesis is my go-to source in helping me find relevant to the paper I’m currently writing. It is an amazing tool to have at your disposal and provides links to the latest information on the most important organic reactions.”

Prof. Jeffery R. T. Bojes
University of Leicester
UK

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• Information about the print version of Science of Synthesis and a list of all print valuations

System Requirements
PC: Windows 8 and 7, Microsoft Internet Explorer 7 or higher, Mozilla Firefox or Google Chrome; Mac: OS X, Version 10.5 and higher, Safari 2.0 and higher

Adobe Reader, Java Runtime Environment

Contact:

The Americas
Thieme Institutional Sales
E-mail: instsales@thieme-chemistry.com
Phone: +1-212-584-4695
Europe, Africa, Asia, Australia (except India and Japan)
Thieme Institutional Sales
E-mail: eprodsales@thieme.de
Phone: +49-711-8931-407
India
Thieme Medical and Scientific
Publishers Private Ltd.
E-mail: eng@thieme.in
Phone: +91-11-23620500
Japan
Bureau Hosoya
E-mail: brhosoya@poplar.ocn.ne.jp
Phone: +81-3-3358-0692

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Science of Synthesis provides a critical review of the synthetic methodologies developed from the early 1800s to the entire field of organic and organometallic chemistry.

**Authoritative full-text descriptions and experimental procedures.**

As the only resource providing full-text descriptions of organic transformations and synthetic methods as well as experimental procedures, Science of Synthesis is a unique chemical information tool complemented by expert insights available only to your online reference collection.

**Easily accessible and searchable.**

Science of Synthesis is easily accessible via a modern Web interface. The intuitive search functionality allows rapid lead generation and route optimization. Search results are illustrated with detailed reaction schemes. The hitlist of results is ranked by relevance and allows you to quickly enter a (sub-)query, illustrating schemes.

**Methods selected, reviewed and continually updated by 1,000 experts.**

Science of Synthesis includes a backfile with the methods and experimental procedures from the early 1800s. The backfile is implemented quickly and easily in the lab. This enables the chemist to take an established method and immediately use it in the design and planning of a synthesis.

**Highlighting special fields – the Reference Library.**

The Reference Library features the best methods in special fields of organic and organometallic chemistry. All special topics are fully elaborated on their scope and limitations. They update the content regularly with new information and special topics of particular interest to synthetic chemists.

**Logically organized by functional group.**

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**Methodology developed from the early 1800s to date for the entire field of organic and organometallic chemistry.**

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**Immediately applicable in the lab.**

Effective and practical experimental procedures can be implemented quickly and easily in the lab. This enables the chemist to take an established method and immediately use it in the design and planning of a synthesis.

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Authoritative full-text descriptions and experimental procedures.

As the only resource providing full-text descriptions of organic transformations and synthetic methods as well as experimental procedures, Science of Synthesis is a unique chemical information tool. It is compiled, edited, and revised by experts and is used by your online reference collection.

Easily accessible and searchable.

Science of Synthesis is easily accessible via a modern Web interface. The intuitive search function allows rapid lead generation and route elaboration. Search results are displayed with detailed reaction schemes and can be exported in a variety of formats. As well as personal settings, each chapter is systematically elaborated.

Methods selected, reviewed, and continually updated by 1,000 experts.

World-renowned experts have chosen the most important transformations and synthetic methods as well as experimental procedures in Science of Synthesis. The Reference Library features the best methods in special fields of organic synthesis. All special topics are fully elaborated on their scope and limitations. They update the content regularly with new information and special topics of particular interest to the synthetic chemist.

Logically organized by functional group.

The systematic, logical, and consistent organization of the synthetic methods developed from the early 1800s to date makes it possible for a particular synthesis and which are not immediately applicable in the lab effective and practical experimental procedures can also be implemented quickly and easily in the lab. This enables the chemist to design and plan a synthesis.

Highlighting special fields: the Reference Library.

The reference library features the best methods in special fields of organic synthesis. All special topics are fully integrated with science of synthesis and included in the keyword and subject indexes.

Including the Houben-Weyl archive.

In addition, Science of Synthesis includes a database with the complete Houben-Weyl series, published between 1909 and 2003 and consisting back to methods of the 1800s. The database documents are available in PDF format and their tables of content are text searchable.

The modern interface.

A newly designed, clear, browser-based interface gives easy access to the methods and experimental procedures in Science of Synthesis. The intuitive search feature allows you to quickly enter a study structure directly and you are immediately presented with the corresponding reaction schemes.

Results.

Each chapter is reviewed and updated by expert authors. The method is thoroughly described, including all relevant details. The experimental procedures are accurate, well-drawn, and detailed.

Full text and experimental procedures.

Each chapter can be downloaded and printed as a PDF.

Within the table of contents, each chapter can be downloaded and printed as a PDF.
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Methods selected, reviewed and continually updated by 1,000 experts World-renowned experts have chosen the most important organic reactions and elaborated on their scope and limitations. They update the content regularly with new discoveries and special topics of particular interest to synthetic chemists.

Logically organized by functional group The systematic, logical and consistent organization of the synthetic methods for each functional group enables users to quickly find out which methods are useful for a particular synthesis and which are not.

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The powerful and user-friendly structure search has been expanded to coordination with libraries.

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- The community of 1,000 authors have contributed to Science of Synthesis.

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System Requirements:
- PC: Windows 98 and 7, Microsoft Internet Explorer 7 and higher, Firefox (Windows and Linux), Mac: OS X, Version 10.5 and higher, Safari 2.0 and higher
- Adobe Reader, Java Runtime Environment

Contact:
- Europe, Africa, Asia, Australia: Thieme Institutional Sales
  - Phone: +49 – 711– 8931– 407
  - E-mail: eproducts@thieme.de
- The Americas: Thieme Institutional Sales
  - Phone: +1– 212 – 584 – 4695
  - E-mail: eproducts@thieme.in
- Japan: Bureau Hosoya
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Full-text resource for methods in synthetic organic chemistry

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