



# Stereochemistry of Organic Compounds

By Ernest L. Eliel, Samuel H. Wilen

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**Stereochemistry of Organic Compounds** By Ernest L. Eliel, Samuel H. Wilen

Stereochemistry of Organic Compounds The first fully referenced, comprehensive book on this subject in more than thirty years, Stereochemistry of Organic Compounds contains up-to-date coverage and insightful exposition of all important new concepts, developments, and tools in the rapidly advancing field of stereochemistry, including:

- \* Asymmetric and diastereoselective synthesis
- \* Conformational analysis
- \* Properties of enantiomers and racemates
- \* Separation and analysis of enantiomers and diastereoisomers
- \* Developments in spectroscopy (including NMR), chromatography, and molecular mechanics as applied to stereochemistry
- \* Prostereoisomerism
- \* Conceptual foundations of stereochemistry, including terminology and symmetry concepts
- \* Chiroptical properties

Written by the leading authorities in the field, the text includes more than 4,000 references, 1,000 illustrations, and a glossary of stereochemical terms.

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## Stereochemistry of Organic Compounds By Ernest L. Eliel, Samuel H. Wilen Bibliography

- Sales Rank: #1210790 in Books
- Published on: 1994-09-30
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 10.25" h x 2.54" w x 7.40" l, 5.34 pounds
- Binding: Hardcover
- 1267 pages

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### Editorial Review

#### From the Publisher

Long awaited by the chemistry community, here is the most important work on stereochemistry--the study of molecules in 3D--by the leading authorities in the field. It is the first comprehensive review of this important field in 30 years, since Eliel's original groundbreaking work, *Stereochemistry of Carbon Compounds*, was published. The book provides a thorough, organized treatment of modern stereochemistry as applied to organic compounds, covering both basic principles and practical aspects. Includes over 1,000 illustrations and chemical structures, numerous tables including ones on conformational energies and physical properties, over 2,500 references, and a glossary of terms.

#### From the Back Cover

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#### About the Author

**ERNEST L. ELIEL** is W. R. Kenan, Jr. Professor Emeritus at the University of North Carolina at Chapel Hill. He is the author of *Stereochemistry of Carbon Compounds* and *Elements of Stereochemistry*, coeditor of the Wiley series, *Topics in Stereochemistry*, and coauthor of *Conformational Analysis*. The recipient of numerous academic and scientific awards and honors, Professor Eliel is Past President of the American Chemical Society and a member of the National Academy of Sciences. **SAMUEL H. WILEN** is Professor of Chemistry at City College, City University of New York, where he has taught since 1957. Professor Wilen is the author of *Tables of Resolving Agents and Optical Resolutions*, coauthor of *Enantiomers, Racemates and Resolutions*, and coeditor of the Wiley series, *Topics in Stereochemistry*. **LEWIS N. MANDER** has been Professor of Chemistry at the Australian National University since 1980. He has held visiting appointments at Cambridge University, California Institute of Technology, and Harvard University. His research interests are concerned with the development of methods and strategies for the synthesis of complex organic molecules with a special interest in plant growth and development.

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