

Laboratory: Organic Molecule Models

(This lab was developed by Laura Sonnichsen and modified by Laura Sonnichsen and Virginia Lehmann.)

References:

Merlie, J. Chemistry 11 Lab Manual (1998) New York: Harcourt Brace.
Timberlake, K. C. Essential Lab Manual to accompany Chemistry: An Introduction to General, Organic, and Biological Chemistry, 8th ed. (2003) New York: Benjamin Cummings

Report Requirement: Answer all of the questions/do all the computations requested in *italics*. Questions not in italics do NOT need to be answered. You do NOT have to write a formal lab report. You should write your answers into a word processing program and save the file either as a Rich Text Format (.rtf) or html file. Go into the Lab – Organic Molecules Report and cut and paste the answers to each question in the appropriate space. (Lab – Organic Molecules Report can be found on the Content page or under Assignments → Quizzes.)

There is also a drop box for questions 2, 3, 4, 6 & 7. For questions 2, 3, 4 & 7 either neatly hand-draw the structures and then scan to a .pdf file or take a picture and save as a .jpg file OR type your structures in a document and save as .html, .rtf or .pdf file. For question 6, take a picture and save as a .jpg file. (Lab – Organic Molecules drop box can be found under Assignments → Dropbox)

Labs not submitted in the appropriate area will *not* be graded.

Report Scoring: 20 points total (each part). Questions valued as marked.

Working with a Partner: You are permitted to work with a partner. If you do so, the experimental data reported may be the same, but you need to write your own answers to each question (this includes drawings. Everyone is to do their own drawings). At the beginning of each question you should note that you worked with a partner by writing "Lab Partner (fill in name)."

Materials:

- Model kit (found in CHE 106 Lab Kit)
- Protractor (to measure angles): If you do not have a protractor at home, a quick Google image search on "protractor" should yield many pictures of protractors. You can print one off to use, but it is recommended that you make the picture fairly small – no bigger than half a page.

Goals:

1. To help you visualize the 3-D structure of organic molecules.
2. To teach you how to use model kits
3. To learn how to differentiate among the three types of isomers (structural, geometric, and stereoisomers)

Conclusion For Organic Models Lab

**Jingshou Liu, Wenlong Ding, Shimin
Liu, Kouqi Liu, Dadong Liu**



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Introduction to Organic Research Ebenezer Emmet Reid, 1924 Studies on Life at the Energetic Edge - from Laboratory Experiments to Field-Based Investigations, Volume II Mark Alexander Lever, Bo Barker Jorgensen, Jan Amend, Victoria Orphan, Tori Hoehler, 2024-01-16 In collaboration with Microenergy 2022 The 4th International Workshop on Microbial Life under Extreme Energy Limitation we are proud to launch Volume II of Studies on Life at the Energetic Edge from Laboratory Experiments to Field Based Investigations This workshop focuses on the energy controls on microbial life and the exploration of the biological demand for energy Genetic adaptations and phenotypic traits that enable microorganisms to tolerate long periods of energy limitation have attracted broad scientific interest in recent years Laboratory based cultivation experiments have shown that the potential to survive weeks to months in the absence of energy inputs occurs across a phylogenetically wide range of microbes Studies on natural environments have shown that energy limitation is pervasive across most habitats on Earth from highly metabolically active surface habitats to subsurface environments that have been cut off from new energy inputs for thousands of years Yet much remains to be learned about the evolutionary adaptations and life history traits that enable microorganisms to live under low energy conditions Similarly the spectrum of energy sources and metabolisms that enable and support life on Earth and potentially elsewhere in the Universe is far from constrained **Multiphase Flow and Transport Models for Organic Chemicals**, 1988

Construction, Implementation, and Evaluation of an Undergraduate Biology Laboratory Teaching Model Todd M. Tarrant, 2005 Laboratory Planetology COSPAR. Scientific Assembly, 1995 *Environmental Toxicology and Chemistry*, 2007 *Sapira's Art and Science of Bedside Diagnosis* Jane M. Orient, 2012-03-28 The Fourth Edition of this textbook teaches the artful science of the patient interview and the physical examination Chapters are filled with clinical pearls vignettes step by step methods and explanations of the physiologic significance of findings New features include Points to Remember over 300 questions with answers and discussion over 120 additional references and expanded discussions of the usage and pitfalls of evidence based medicine Other highlights include expanded and updated discussions of sleep apnea minor head trauma cervical spine involvement in rheumatoid arthritis transplantation related problems adverse effects of AIDS therapy and more A companion Website includes fully searchable text and a 300 question test bank **Laboratory Manual for a Short Course in Organic Chemistry** Ernest Edwin Campaigne, Robert D. Schuetz, 1953 TT., 1967
Translations of scientific and technical monographs and articles Laboratory Exercises in Organic and Biological Chemistry Stuart J. Baum, William R. Bowen, Susan R. Poulter, 1981 **Laboratory Studies on the Formation of Secondary Organic Aerosol from the Atmospheric Oxidation of Alkenes** Kenneth Stephen Docherty, 2004
Unconventional Reservoir Geomechanics Jingshou Liu, Wenlong Ding, Shimin Liu, Kouqi Liu, Dadong Liu, 2023-02-15
Monitoring and Modelling of Industrial Organic Chemicals, with Particular Reference to Aquatic Risk Assessment Francis

M. B. Carpanini,1999 The most accepted way to confirm or refute these predictions is to measure the concentration in a monitoring study **The Dental Office and Laboratory** ,1889 **SSSA Special Publication** ,1979 Formulation, Verification and Application of Integrated Models for Trace Metal Phase Distribution in Laboratory Microcosms and Aquatic Environments Yarrow Michael Nelson,1997 **Physical, Chemical, and Biological Aspects of Subsurface Organic Waste Injection Near Wilmington, North Carolina** J. A. Leenheer,R. L. Malcolm,W. R. White,1976 Journal of Gas Lighting and Water Supply ,1913 **Dental Office and Laboratory** ,1892 *English Mechanic and Mirror of Science* ,1915

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