

# Bond Energy

## Chem Worksheet 16-2

Name \_\_\_\_\_

**Bond energy** is defined as the amount of energy required to break a bond. These values are positive, indicating that bond breaking is endothermic. Bond energies are reported as kilojoules per mole (kJ/mol). The energy for breaking a hydrogen-hydrogen bond is 436 kJ/mol or when a hydrogen-hydrogen bond is formed the process releases 436 kJ/mol.

In a chemical reaction several bonds are broken and formed. For example in the reaction below a hydrogen-hydrogen bond is broken and a fluorine-fluorine bond is broken. Two hydrogen-fluorine bonds are formed. The overall energy change for this process is calculated below.

**example**



$$\begin{aligned} \Delta H_{\text{rxn}} &= (\text{energy needed to breaking bonds}) - (\text{energy formed in breaking bonds}) \\ &= (436 \text{ kJ/mol} + 158 \text{ kJ/mol}) - (2(567 \text{ kJ/mol})) \\ &= -543 \text{ kJ/mol} \end{aligned}$$



### Average Bond Energies (kJ/mol)

H-H	436 kJ/mol	C-H	413 kJ/mol	C=C	614 kJ/mol
H-OH	463 kJ/mol	C-C	348 kJ/mol	C≡C	843 kJ/mol
H-F	567 kJ/mol	C-O	358 kJ/mol	C≡O	1042 kJ/mol
O-O	201 kJ/mol	C-N	305 kJ/mol	C=O	799 kJ/mol
N-O	201 kJ/mol	C-P	200 kJ/mol	C-OH	463 kJ/mol
O-H	463 kJ/mol	C-S	258 kJ/mol	C=O	743 kJ/mol
C-C	348 kJ/mol	C-Cl	339 kJ/mol	C-O	358 kJ/mol
C-H	413 kJ/mol	C-Br	276 kJ/mol	C-O	358 kJ/mol
C-O	358 kJ/mol	C-I	213 kJ/mol	C-O	358 kJ/mol
C-N	305 kJ/mol	C-F	485 kJ/mol	C-O	358 kJ/mol
C-P	200 kJ/mol	C-O	358 kJ/mol	C-O	358 kJ/mol
C-S	258 kJ/mol	C-O	358 kJ/mol	C-O	358 kJ/mol
C-Cl	339 kJ/mol	C-O	358 kJ/mol	C-O	358 kJ/mol
C-Br	276 kJ/mol	C-O	358 kJ/mol	C-O	358 kJ/mol
C-I	213 kJ/mol	C-O	358 kJ/mol	C-O	358 kJ/mol

Estimate the enthalpy change ( $\Delta H_{\text{rxn}}$ ) of the following reactions using the bond energies above.



Draw Lewis structures for reactants and products. Estimate the enthalpy change ( $\Delta H_{\text{rxn}}$ ) for the reactions using bond energies.



# John Erickson Chemistry 12 2 Solutions

**John Erickson**



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Chemical Engineer, 1908     *The Chemical Engineer*, 1908     **Chemical Engineer** Richard Kidder Meade, Harry McCormack, Laurance T. Clark, Alexander G. Sclater, Lloyd Lamborn, 1908     *March's Advanced Organic Chemistry* Michael B. Smith, Jerry March, 2007-01-29 The Sixth Edition of a classic in organic chemistry continues its tradition of excellence Now in its sixth edition March's Advanced Organic Chemistry remains the gold standard in organic chemistry Throughout its six editions students and chemists from around the world have relied on it as an essential resource for planning and executing synthetic reactions The Sixth Edition brings the text completely current with the most recent organic reactions In addition the references have been updated to enable readers to find the latest primary and review literature with ease New features include More than 25 000 references to the literature to facilitate further research Revised mechanisms where required that explain concepts in clear modern terms Revisions and updates to each chapter to bring them all fully up to date with the latest reactions and discoveries A revised Appendix B to facilitate correlating chapter sections with synthetic transformations

*Journal of Solution Chemistry*, 1989     **Textbook of Organic Medicinal and Pharmaceutical Chemistry** Charles Owens Wilson, Ole Givold, Robert F. Doerge, 1977     *Guide to Scientific Products, Instruments and Services*, 1992

*Journal of the American Chemical Society* American Chemical Society, 1965 Proceedings of the Society are included in v 1 59 1879 1937     *American Men of Science*, 1949     **Hoover's MasterList of Major U. S. Companies, 2002** Hoover's, 2001-10     Interactions Between Hydroxyacids and Acetic Anhydride in Aqueous Solutions Rolf Bjerke Paulssen, 1968     Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1973     Activity Coefficients in Electrolyte Solutions Kenneth S. Pitzer, 2018-05-04 This book was first published in 1991 It considers the concepts and theories relating to mostly aqueous systems of activity coefficients     **Food Lipids** Casimir C. Akoh, 2017-03-16 Maintaining the high standards that made the previous editions such well respected and widely used references Food Lipids Chemistry Nutrition and Biotechnology Fourth Edition provides a new look at lipid oxidation and highlights recent findings and research Always representative of the current state of lipid science this edition provides 16 new chapters and 21 updated chapters written by leading international experts that reflect the latest advances in technology and studies of food lipids New chapters Analysis of Fatty Acid Positional Distribution in Triacylglycerol Physical Characterization of Fats and Oils Processing and Modification Technologies for Edible Oils and Fats Crystallization Behavior of Fats Effect of Processing Conditions Enzymatic Purification and Enrichment and Purification of Polyunsaturated Fatty Acids and Conjugated Linoleic Acid Isomers Microbial Lipid Production Food Applications of Lipids Encapsulation Technologies for Lipids Rethinking Lipid Oxidation Digestion Absorption and Metabolism of Lipids Omega 3 Polyunsaturated Fatty Acids and Health Brain Lipids in Health and Disease Biotechnologically Enriched Cereals with PUFAs in Ruminant and

Chicken Nutrition Enzyme Catalyzed Production of Lipid Based Esters for the Food Industry Emerging Process and Technology Production of Edible Oils Through Metabolic Engineering Genetically Engineered Cereals for Production of Polyunsaturated Fatty Acids The most comprehensive and relevant treatment of food lipids available this book highlights the role of dietary fats in foods human health and disease Divided into five parts it begins with the chemistry and properties of food lipids covering nomenclature and classification extraction and analysis and chemistry and function Part II addresses processing and food applications including modification technologies microbial production of lipids crystallization behavior chemical interesterification purification and encapsulation technologies The third part covers oxidation measurements and antioxidants Part IV explores the myriad interactions of lipids in nutrition and health with information on heart disease obesity and cancer with a new chapter dedicated to brain lipids Part V continues with contributions on biotechnology and biochemistry including a chapter on the metabolic engineering of edible oils

**Federal Register**, 1975 *Cisplatin*  
Bernhard Lippert, 1999 30 years after its discovery as an antitumor agent cisplatin represents today one of the most successful drugs in chemotherapy This book is intended to reminisce this event to take inventory and to point out new lines of development in this field Divided in 6 sections and 22 chapters the book provides an up to date account on topics such as the chemistry and biochemistry of cisplatin the clinical status of Pt anticancer drugs the impact of cisplatin on inorganic and coordination chemistry new developments in drug design testing and delivery It also includes a chapter describing the historical development of the discovery of cisplatin The ultimate question How does cisplatin kill a cell is yet to be answered but there are now new links suggesting how Pt binding to DNA may trigger a cascade of cellular reactions that eventually result in apoptosis p53 and a series of damage recognition proteins of the HMG domain family appear to be involved The book addresses the problem of mutagenicity of Pt drugs and raises the question of the possible relevance of the minor DNA adducts e g of interstrand cross links and the possible use of trans NH<sub>3</sub> 2Pt II modified oligonucleotides in antisense and antigene strategies Our present understanding of reactions of cisplatin with DNA is based upon numerous model studies from isolated model nucleobases to short DNA fragments and application of a large body of spectroscopic and other physico chemical techniques Thanks to these efforts there is presently no other metal ion whose reactions with nucleic acids are better understood than Pt In a series of chapters basic studies on the interactions of Pt electrophiles with nucleobases oligonucleotides DNA amino acids peptides and proteins are reported which use among others sophisticated NMR techniques or X ray crystallography to get remarkable understanding of details on such reactions Reactivity of cisplatin once bound to DNA and formerly believed to be inert enough to stay is an emerging phenomenon It has not yet widely been studied but is potentially extremely important Medicinal bioinorganic chemistry the role of metal compounds in medicine has received an enormous boost from cisplatin and so has bioinorganic chemistry as a whole There is hardly a better example than cisplatin to demonstrate what bioinorganic chemistry is all about The marriage between classic inorganic coordination chemistry and

the other life sciences medicine pharmacy biology biochemistry Cisplatin has left its mark also on areas that are generally considered largely inorganic The subject of mixed valence Pt compounds is an example From the sleeping beauty it made its way to the headlines of scientific journals thanks to a class of novel Pt antitumor agents the so called platinum pyrimidine blues In the aftermath diplatinum III compounds were recognized and studies in large numbers and now an organometallic chemistry of these diplatinum III species is beginning to emerge The final section of the book is concerned with new developments such as novel di and trinuclear Pt II drugs with DNA binding properties different from those of cisplatin with orally active Pt IV drugs which are presently in clinical studies and with attempts to modify combinatorial chemistry in such a way that it may become applicable to fast screening of Pt antitumor drugs The potential of including computational methods in solving questions of Pt DNA interactions is critically dealt with in the concluding chapter

**Molecular Chemistry and Biomolecular Engineering** Lionello Pogliani, Francisco Torrens, A. K. Haghi, 2019-09-12 This new volume is devoted to molecular chemistry and its applications to the fields of biology It looks at the integration of molecular chemistry with biomolecular engineering with the goal of creating new biological or physical properties to address scientific or societal challenges It takes a both multidisciplinary and interdisciplinary perspective on the interface between molecular biology biophysical chemistry and chemical engineering Molecular Chemistry and Biomolecular Engineering Integrating Theory and Research with Practice provides effective support for the development of the laboratory and data analysis skills that researchers will draw on time and again for the practical aspects and also gives a solid grounding in the broader transferable skills

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