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 in kilojoules per mole (kJ/mol). The energy for breaking a hydrogen-hydrogen bond is 436 kJ/mol so 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.

H-HBland energy: 436 kJ/mol

F-FBond Energy: 155 kJ/mol

example
$$H_2(g) + F_2(g) \rightarrow 2HF$$

$$\Delta H_m = [\text{energy used for breaking bonds}] - [\text{energy formed in making bonds}]$$

$$[436 \text{ kJ/mol} + 155 \text{ kJ/mol}] - [2(567 \text{ kJ/mol})]$$

$$= -543 \text{ kJ/mol}$$

Average Bond Energies (kJ/mol)

H-H	4.36 kJ/mod	C-H	413 kl/mol	C=C	614 kJ//mol
H-C1	431 kJ/mol	C-C	348 kil/mol	CHC	839 kJVmol
H-F	567 kJ/mol	C-N	293 kJ/mol	C=O	799 kJ//mol
N-H	3/91 kJ/molt	C-O	3.58 kJVmod	O=O	495 kJ//mol
N-O	201 kJ/mol	C-F	485 kJ/mod	CHO	1072 kJ/mod
O-H	463 k3/mol	C-CI	328 kJ/mol	CHN	615 k.Wmell
O-O	146 kJ/molt	C-S	2.59 kJ//mol	N-N	418 kJVmol
F-F	155 kJ/mol	CI-CI	242 kJ/mol	NewNo	941 kJ/mol
				CHN	891 kJ/mol

Estimate the enthalpy change (ΔH_{res}) of the following reactions using the bond energies above.

1.
$$H-H+CI-CI \rightarrow H-CI+H-CI$$
4. $H-\frac{CI}{C}-CI+O \rightarrow \frac{O}{C}-CI+H-CI$
2. $H-C=C + H-F-F \rightarrow H-\frac{H}{C}-\frac{H}{C}-H$
5. $H-\frac{C}{C}-H+O=O \rightarrow O=C=O+H-O-H$
3. $H-\frac{H}{C}-O-H+H-\frac{H}{C}-O-H \rightarrow H-\frac{H}{C}-O-H+H-O-H$

Draw Lewis structures for reactants and products. Estimate the enthalpy change (ΔH_{re}) for the reactions using bond energies.

9.
$$N_2(g) + 3H_2(g) \rightarrow 2NH_3(g)$$

10.
$$H_2(g) + C_2H_4(g) \rightarrow C_2H_6(g)$$

11.
$$2C_2H_6(g) + 7O_2(g) \rightarrow 4CO_2(g) + 6H_2O(g)$$

13. HCN
$$(g)$$
 + 2H₂ (g) \rightarrow CH₃NH₂ (g)

Bond Energy Extension Questions Key

Brendan G. Carr

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Objective Question Bank in Chemistry B.K. Sharma,1997 Measurement Technology for Micro-Nanometer Devices Wendong Zhang, Xiujian Chou, Tielin Shi, Zongmin Ma, Haifei Bao, Jingdong Chen, Liguo Chen, Dachao Li, Chenyang Xue, 2017-01-17 A fully comprehensive examination of state of the art technologies for measurement at the small scale Highlights the advanced research work from industry and academia in micro nano devices test technology Written at both introductory and advanced levels provides the fundamentals and theories Focuses on the measurement techniques for characterizing MEMS NEMS devices Microscale Testing in Aquatic Toxicology Peter G. Wells, Kenneth Lee, Christian Blaise, 2018-05-04 Bioassays are among the ecotoxicologist s most effective weapons in the evaluation of water quality and the assessment of ecological impacts of effluents chemicals discharges and emissions on the aquatic environment Information on these assessment aids is needed throughout the international scientific and environmental management community This comprehensive reference provides an excellent overview of the small scale aquatic bioassay techniques and applications currently in use around the world This special volume is the result of several years of collaboration between Environment Canada and Fisheries and Oceans Canada Internationally recognized research scientists at many institutions have contributed to this state of the art examination of the exciting environmentally important field of microscale testing in aquatic toxicology Microscale Testing in Aquatic Toxicology contains over forty chapters covering relevant principles new techniques and recent advancements and applications in scientific research environmental management academia and the Thin Films: Volume 308 Paul H. Inorganic Chemistry Egon Wiberg, Nils Wiberg, 2001 private sector Townsend, 1993-10-27 The MRS Symposium Proceeding series is an internationally recognised reference suitable for The Northwestern Reporter ,1919 Thin Films ,1993 Telephony, 1903 researchers and practitioners

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