



Comprehensive Handbook of Chemical Bond Energies

Yu-Ran Luo

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Understanding the energy it takes to build or break chemical bonds is essential for scientists and engineers in a wide range of innovative fields, including catalysis, nanomaterials, bioengineering, environmental chemistry, and space science. Reflecting the frequent additions and updates of bond dissociation energy (BDE) data throughout the literature, the Comprehensive Handbook of Chemical Bond Energies compiles the most recent experimental BDE data for more than 19,600 bonds of 102 elements.

The author organizes the data by bond type, functional group, bond order, bond degree, molecular size, and structure for ease of use. Data can also be located using the Periodic table. The book presents data for organic molecules, biochemicals, and radicals as well as clusters, ions, hydrogen- and surface-bonded species, van der Waals complexes, isotopic species, and halogen-clusters/complexes. It also introduces entirely new data for inorganics and organometallics. The final chapter summarizes the heats of formation for atoms, inorganic/organic radicals, and monoatomic ions in the gas phase.

The Comprehensive Handbook of Chemical Bond Energies offers quick access to experimental BDE data in the most inclusive, well-organized, and up-to-date collection available today.

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