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Handbook of Antioxidants: Bond Dissociation Energies, Rate Constants, Activation Energies, and Enthalpies of Reactions (Hardback)

By Evgeny T. Denisov, Taissa Denisova

Taylor Francis Inc, United States, 1999. Hardback. Book Condition: New. 2nd ed.. 257 x 188 mm. Language: English . Brand New Book. Designed for scientists and engineers involved in the chemistry and technology of antioxidants, the Second Edition of this popular handbook continues to provide comprehensive data on the thermodynamics and reactivity of antioxidants. Fully revised and updated, the Second Edition provides the latest data on antioxidants and polymer stabilizers, new data for biological antioxidants, a corrected list of bond dissociation energies, and a full bibliography. Additions and changes in the New Edition: * The latest data on O-H bond dissociation energies of phenols and the new scale these values * Thermodynamic functions of antioxidants and their intermediate presented in tables * A table with current data on dissociation energies of C-H bonds of hydrocarbons and oxygen-containing compounds * Rate constants and activation energies of reactions of antioxidants with ozone, nitrogen dioxide, and hydroperoxide * Kinetic characteristics of benzoquinone reactions with antioxidants * Rate constants of free radical generation through biomolecular reactions with ozone, nitrogen dioxide, and hydroperoxide * All calculated data from the first edition has been recalculated in accordance with new data on dissociation energies and parameters of...



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