

The problem of the quantitative evaluation of the inductive effect: Correlation analysis

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Abstract

Published data concerning the quantitative estimation of the inductive interaction of functional groups in organic and organoelement compounds are systematically described. Studies carried out by the authors and devoted to the elaboration of a new model of the inductive effect, permitting theoretical calculation of inductive constants of various substituents at any reactive centre, are surveyed. The possibility of using this approach to solve some important theoretical problems associated with the inductive effect such as the inductive influence in organoelement compounds and the inductive effects of alkyl groups is discussed. © 1996 Russian Academy of Sciences and Turpion Ltd.

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