Russian Journal of General Chemistry 1996 vol.66 N3, pages 399-402

A New Model of Inductive Effect: "Inductive" Group Electronegativities

Cherkasov A., Galkin V., Zueva E., Cherkasov R. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

A theoretical method is proposed for the calculation of group electronegativities of substituents based on the earlier elaborated new model of inductive effect. This approach makes it possible to calculate χ values on the basis of fundamental geometric and physical parameters of the atoms constituing a substituent, employing a simple and available mathematical procedure.