

[Published: January 2004](#)

Quantitative Analysis of Spectral Effects due to the *Z/E* Conformational Equilibria in Derivatives of the Amides and Hydrazides of Dicarboxylic Acids

[O. A. Gorkunenko](#), [A. N. Vdovichenko](#), [A. Yu. Chervinskii](#), [L. M. Kaplan](#) & [G. E. Vaiman](#)

[Theoretical and Experimental Chemistry](#) **40**, 12–16 (2004)

26 Accesses | **1** Citations | [Metrics](#)

Abstract

The contributions from anisotropic magnetic screening and electronic effects to the relative chemical shifts of the NH protons in the amides and N,N-dimethylhydrazides of succinic and glutaric acids were calculated. It was shown that the splitting of the signals of the NH protons is largely determined by the redistribution of electron density in the molecule during the conformational transition.

This is a preview of subscription content, [access via your institution.](#)

Access options

Buy article PDF