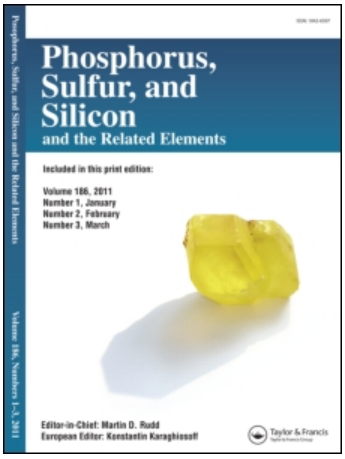

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SUBSTITUENT EFFECTS ON CONFORMATIONAL EQUILIBRIA IN THIANE-1-N-ARYL-SULFIMIDES

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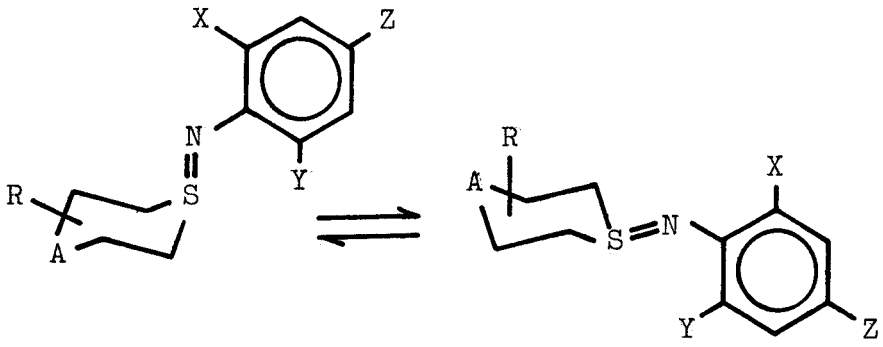
Compounds of the general type shown have been synthesized and their conformational equilibria have been established by low temperature ^{13}C nmr spectroscopy.



a e

In compounds with A = CH_2, R = H the equatorial form e is generally strongly preferred, however, electron withdrawing substituents Z (e.g. Z = NO_2) show a diminished preference compared to electron donating substituents (e.g. Z = OCH_3). In case of A = CHCl (Cl trans) the form a predominates by 0.7 kcal/mol. The influence of the solvent on the conformational equilibrium has been studied.