



Preference of *cis*-thioamide structure in *N*-thioacyl-*N*-methylanilines.

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Streszczenie

The thioamide group represents a highly attractive isostere of the amide bond. We report a combined structural and computational study on *cis*-thioamide conformation of *N*-thioacyl-*N*-methylanilines. Amide to thioamide replacement in a class of anilides that are highly valuable as conformational locks results in a higher preference for *cis* conformation in a unique compacted template intrinsic to the thioamide structure. The study strongly supports the use of *N*-methylthioanilides as *cis*-conformational locks in various facets of chemistry.

Słowa kluczowe

Amides, Chemical structure, Oxygen, Conformation, Resonance structures

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