

Solid State NMR Study of Ureas: (+)-Biotin methyl ester and Gliclazide

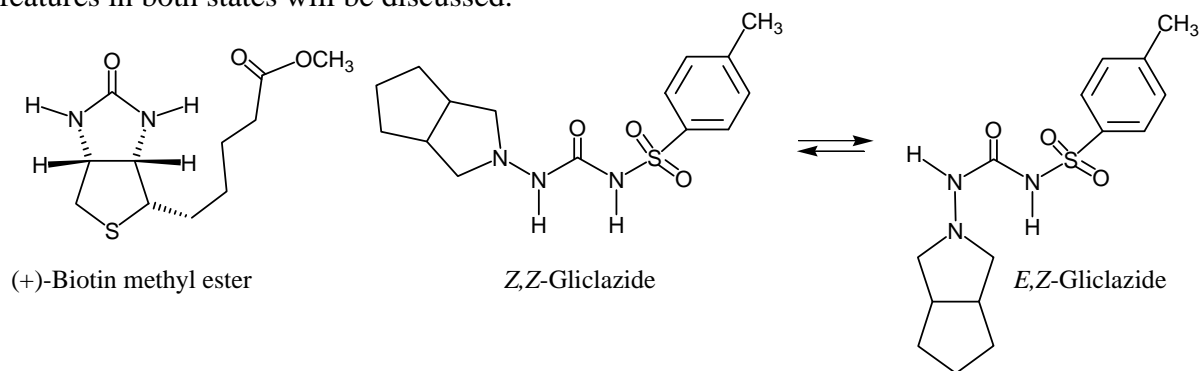
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We have devoted some publications to the design, synthesis and complexing properties of new hosts designed to bind specifically ureas [1-6]. Simultaneously we have started the determination of the thermodynamic properties (heats of formation) of these ureas [7]. Along these studies we recorded solution NMR spectra, often for characterization purposes. However, as there are no solid state NMR papers dealing with them, we undertook such task in order to continue our studies on molecular recognition of ureas at the solid state (co-crystals). We report here our results concerning the ¹³C and ¹⁵N CPMAS NMR complete characterization of (+) biotin methyl ester and glyclazide, comparatively to their solution NMR data. The most relevant features in both states will be discussed.



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This work has been carried out with financial aid of DGES/MEC (CTQ 2007-62113)