1-METHYL-2-AZATHIABENZENE 1-OXIDE: SYNTHESIS AND SOME PROPERTIES

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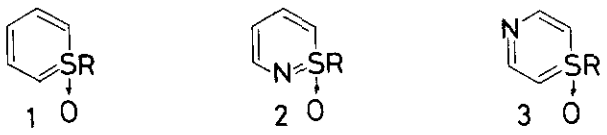
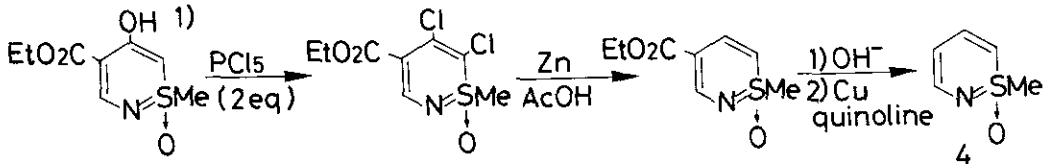
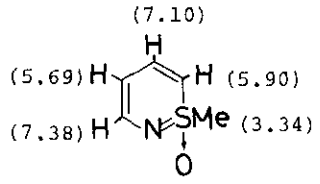
Thiabenzene 1-oxides 1 and their aza-analogues 2 and 3 form a rather unique class of 6-membered fully unsaturated heterocycles containing 6π electrons, which are not aromatic but ylidic in nature. The investigations in this field have been made with the multi-substituted derivatives. The syntheses of the hitherto unknown parent compounds are highly desirable in order to obtain more informations about these ring systems. We now wish to report the synthesis and physical (^{1}H and ^{13}C NMR spectra) and chemical (deuterium exchange, bromination, nitration etc.) properties of the title compound 4.



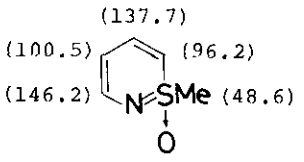
Synthesis



Physical Properties



^{1}H NMR spectrum (δ) in $CDCl_3$



^{13}C NMR spectrum (δ) in $CDCl_3$

1) Y. Tamura, M. Tsunekawa, T. Miyamoto, and M. Ikeda, J. Org. Chem., 42, 602 (1977).