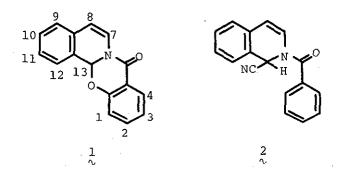
NMR SPECTRAL ASSIGNMENT OF 6,13-DIHYDRO-5-OXO-5H-ISOQUINOLINO[1,2-b][1,3]BENZOXAZINE

Robert John Bass and Michael Kinns Pfizer Central Research, Sandwich, Kent, England Tetsuji Kametani, ^{*} Chu Van Loc, Masataka Ihara, and Keiichirg Fukumoto Pharmaceutical Institute, Tohoku University, Aobayama, Sendai 980, Japan

A revision of nmr spectral assignment of the title compound is described.

We have recently reported the synthesis of 6,13-dihydro-5-oxo-5H-isoquinolino[1,2-b][1,3]benzoxazine (1)¹ by a condensation of isoquinoline with salicyl chloride. On the basis of the coupling constant (J = 7.0 Hz) the signal at 7.95 δ was assigned as the low field doublets arising from proton C_7 -H.¹ Comparison of this assignment with that reported by Uff² (2) for a proton in a similar environment; C_3 -H, 6.65 δ (the Reissert compound 2) suggested that the assignment for 1 was too low.

Therefore careful reinvestigation of the nmr spectrum of $\frac{1}{\sqrt{2}}$ revealed that the resonance at 7.95 δ showed a double doublet having J = 2 and 7.0 Hz which suggested this resonance should be assigned as C_4 -H. This was confirmed by irradiation of the upfield part of the doublet at 5.85 δ (J = 7.0 Hz) when part of the aromatic multiplet at 7.42 δ collapsed to a singlet. No effect was discernible on the low field doublet at 7.95 δ . Thus a doublet at 7.95 δ reported earlier should be assigned as C_4 -H.



REFERENCES

- 1 T. Kametani, T. Higa, C. V. Loc, M. Ihara, and K. Fukumoto, Chem. and Pharm. Bull. Japan, 1977, 25, 2735.
- 2 S. R. Chhabra, J. R. Kershaw, and B. C. Uff, <u>Tetrahedron Letters</u>, 1967, 3199.

Received, 9th May, 1978.