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Aerial Oxidation of Some 2-Pyridyl Ketone Hydrazones Catalyzed by Cu^{2+} . Physical Properties of Reaction Products*

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Some 2-pyridyl ketone hydrazones were subjected to aerial oxidation catalyzed by Cu^{2+} . The oxidation product of di-2-pyridyl ketone hydrazone had the structure of a derivative of [1,2,3]-triazolo[1,5-*a*]pyridine, and this structure is different from that previously proposed by other investigators. The fluorescence spectra of the oxidation products were measured in solutions of a wide pH range. In contrast to the oxidation products of other 2-pyridyl ketone hydrazones, that of di-2-pyridyl ketone hydrazone showed very strong fluorescence in acidic media. The characteristic nature of this compound was also apparent in the ultraviolet spectrum. The generation of hydroxyl radical was demonstrated in the aerial oxidation of di-2-pyridyl ketone hydrazone catalyzed by Cu^{2+} , suggesting the formation of hydrogen peroxide as another oxidation product.

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