SYNTHESIS OF THIAZOLO[3,2-*a*]-PYRIDINIUM SALTS

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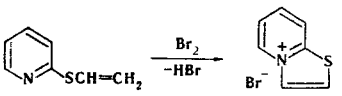
We have shown that intramolecular alkylation to give thiazolo[3,2-*a*]pyridinium bromide, with mp 292° (from ethanol), in 80% yield occurs in the reaction of 2-pyridyl vinyl sulfide with bromine in carbon tetrachloride at 20°. The reaction is not accompanied by the side formation of the corresponding sulfoxide or sulfone. The IR (KBr pellets), UV (in ethanol), and PMR (in CF_3COOH) spectra of I coincide with the spectra of a genuine sample. UV spectrum, λ_{max}, nm (log ε): 227 (4.10), 296 (4.10), and 310 (4.27). PMR spectrum, δ, ppm: 8.33 (2-H, 7-H), 8.72 (3-H), 9.32 (5-H), 7.99 (6-H), and 8.73 (8-H). The results of analysis for S and Br correspond to the calculated values.



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Replacement of the sulfur atom by an oxygen atom in the 2-pyridyl vinyl sulfide molecule gives 2-bromooxazolino[3,2-*a*]pyridinium bromide.

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