STEREOCHEMISTRY OF 9-ARYLTHIOXANTHENE 10-OXIDES, 10,10 -DIOXIDES, AND THIOXANTHENIUM SALTS

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In the course of our researches on the synthesis and reactions of new crystalline 9,10-disubstituted thiaanthracenes, conformer assignments of numerous 9-aryl(and 9-aryl-9-alkyl)thioxanthene 10-oxides, 9-arylthioxanthene 10,10-dioxides, 9-aryl(and 9-aryl-9-alkyl)-10-alkyl(and 10-aryl)thioxanthenium salts, and 9-aryl-9,10-alkanothioxanthenium salts by proton magnetic resonance spectroscopy were investigated and the generality for conformational analysis using the common spectral data to their isomers of the title compounds has been found.

The present generality should be widely applicable with regard to the conformational assignment in other derivatives and analogs of the title compounds.