

# 5,5-Bis(alkoxy-*NNO*-azoxy)-1,3,2-dioxathiane 2-Oxides. Synthesis and X-Ray Diffraction Study

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**Abstract**—2,2-Bis(alkoxy-*NNO*-azoxy)propane-1,3-diols reacted with thionyl chloride to give previously unknown 5,5-bis(methoxy-*NNO*-azoxy)- and 5,5-bis(ethoxy-*NNO*-azoxy)-1,3,2-dioxathiane 2-oxides. Replacement of the hydroxy groups by chlorine is a minor reaction path. According to the X-ray diffraction data, the heteroring in the molecule of 5,5-bis(methoxy-*NNO*-azoxy)-1,3,2-dioxathiane 2-oxide adopts a *chair* conformation with axial orientation of the S=O bond.

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