

The Reactions of Some Alkyl(thio)-Substituted 2-Nitrodienes with Piperazines and a Structural Study

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Z. Naturforsch. **61b**, 1174 – 1179 (2006); received January 18, 2006

Thiosubstituted nitrodiene compound **1a** was obtained from 2-nitropentachlorobutadiene and dodecanethiol. Compound **1b** was prepared from 2-nitropentachlorobutadiene and hexadecanethiol. Monosubstituted diene compounds **1a** and **1b** reacted with piperazines such as derivatives of **2** and **4** in CH₂Cl₂ and gave the novel compounds. 2-Nitro-3,4,4-trichloro-1-dodecylthio-1-(2-fluorophenyl-piperazinyl)-1,3-butadiene (**3d**) was synthesized and its crystal structure was determined.

Key words: Thiosubstituted Nitrodiene, *N,S*-Substituted Nitrodienes, Piperazine Derivatives