

1,2-Deoxygenation of *vic*-Dihydroxyindenoimidazoles: Optimization of a Novel Deoxygenation Reagent

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Treatment of *vic*-dihydroxyindeno[1,2-*d*]imidazoles with *N,N,N',N'*-tetraalkyl sulfurous diamides yields indeno[1,2-*d*]imidazoles by deoxygenation. Isochromeno[3,4-*d*]imidazoles are formed as byproducts. An X-ray crystal structure analysis confirmed the structure of deoxygenated products. The ratio of products depending on the reaction conditions was analyzed. A mechanism of the reaction is discussed.

Key words: Indeno[1,2-*d*]imidazoles, Isochromeno[3,4-*d*]imidazoles, *N,N,N',N'*-Tetraalkylsulfurous Diamides, 1,2-Bis-deoxygenation, Crystal Structure