M. MIYASAKA, K. HIRANO, T. SATOH, R. KOWALCZYK, C. HOLM,* M. MIURA* (OSAKA UNIVERSITY, JAPAN AND RWTH AACHEN UNIVERSITY, GERMANY)

Copper-Catalyzed Direct Sulfoximination of Azoles and Polyfluoroarenes under Ambient Conditions
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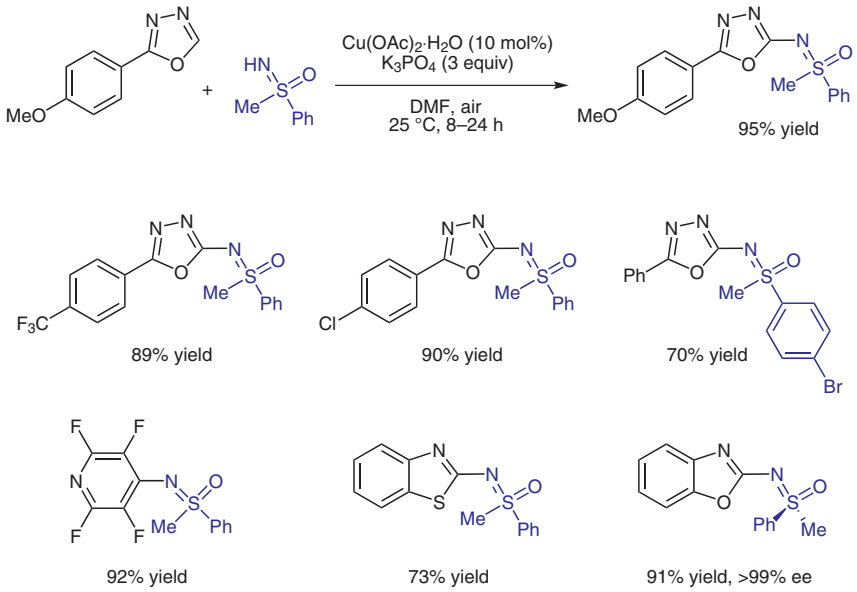
Copper-Catalyzed Direct Sulfoximination



Significance: Herein, the direct dehydrogenative sulfoximination of azoles and polyfluoroarenes is reported. This copper acetate catalyzed C–N coupling proceeds effectively at room temperature in air and affords a wide range of *N*-arylsulfoximines in excellent yield. With this protocol, a preactivation step, such as halogenation or the formation of a metalated species, is not necessary.

Comment: The use of other copper salts gave similar or slightly inferior results. The addition of different ligands leads to decreasing yields. For a full conversion the combination of the phosphate base and DMF was necessary. Using an enantiopure sulfoximine gave the desired product maintaining the enantiomeric excess.

SYNFACTS Contributors: Paul Knochel, Thomas Kunz
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