Bulletin of the Academy of Sciences of the USSR Division of Chemical Science 1972 vol.21 N9, pages 1957-1960

Reaction of isocyanates with schiff bases

Zobova N., Rusanov G., Arbuzov B.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

1. Electron-donor substituents in the p-positions of the aromatic rings in Schiff bases increase the overall addition rate of the benzoyl and trichloroacetyl isocyanates to Schiff bases and shift the reaction toward the formation of 4-membered rings, whereas electron-acceptor substituents shift the reaction toward the formation of oxidiazinone derivatives. 2. Highly polar solvents (dimethyl sulfoxide and SO2) promote the formation of hexahydro-S-triazine-dione derivatives.

http://dx.doi.org/10.1007/BF00854615