Synthesis of Some 2-Aminonitroethanes via Silica Gel-Catalyzed Nitro-Mannich Reaction

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Z. Naturforsch. 61b, 1162 – 1165 (2006); received November 22, 2005

A direct one pot, three-component nitro-Mannich reaction of a nonenolizable aldehyde, aniline or one of its ring-substituted derivatives and nitromethane was carried out on silica gel surface. The products of the reaction, 2-aminonitroethane, were obtained in high yields. IR, $^1$H NMR, $^{13}$C NMR spectra and elemental analysis confirmed the structures of the products.

Key words: Nitro-Mannich Reaction, Nonenolizable Aldehydes, Imines