Transformations of 3-Nitropyridin-4(1*H*)-one and 1-Methyl-3-nitropyridin-4(1*H*)-one in Reaction with Hydrazine

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Abstract—Hydrazinolysis of 3-nitropyridin-4(1*H*)-one and its *N*-methyl derivative leads to the formation of 1-(1*H*-pyrazol-3-yl)ethanone hydrazone whose structure was confirmed by independent synthesis from authentic 3-acetyl-1*H*-pyrazole and comparison of the IR and ^{1}H NMR spectra. Oxidation of 1-(1*H*-pyrazol-3-yl)ethanone hydrazone with potassium permanganate gave 1*H*-pyrazole-3-carboxylic acid.

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