Catalytic Synthesis of 1,3-Propylenediamines

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Abstract—The hydrogenation on Raney nickel of 3-alkenyl-substituted pyrazolines and also of 3-methyl-5-(2-furyl)-1*H*-pyrazoline and 3,3'-bipyrazoline afforded substituted 1,3-diaminobutanes, 1,3-diaminopentanes, 1,3-diaminohexane, and 1,3,4,6-tetraaminohexane. Under the same conditions from 3-acetyl-4-(2-furyl)-1*H*-pyrazoline 3-amino-2-methyl-4-(2-furyl)pyrrolidine was obtained.

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