

Synthesis of 4-(1*H*-Azol-1-ylmethyl)benzohydrazides and Their Acyclic and Heterocyclic Derivatives

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Abstract—4-(1*H*-Azol-1-ylmethyl)benzohydrazides were prepared from methyl 4-(bromomethyl)benzoate, azoles, and hydrazine hydrate. Reactions of 4-(1*H*-imidazol-1-ylmethyl)benzohydrazide with carbonyl compounds gave hydrazones whose tautomerism was studied. From the hydrazides, 1,3,4-oxadiazoles, 1,2,4-triazole-5-thione, and *N*-benzoyl-*N'*-alkyl(aryl)sulfonylhydrazines were synthesized.