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# Synthesis of 1-(4-Alkoxybenzyl)-1*H*-(benz)imidazoles

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**Abstract**—*N*-Alkylation of 1*H*-imidazole and 1*H*-benzimidazole with 4-*n*-octyloxybenzylchloride, 4-*n*-hexadecyloxybenzylchloride and 1-(adamantyl-1)-2-[4-(hydroxymethyl)phenoxy]ethanone was considered as an alternative to *O*-alkylation of 4-[(1*H*-imidazol-1-yl)methyl]phenol and 4-[(1*H*-benzimidazol-1-yl)methyl]phenol with *n*-octylbromide, *n*-hexadecylbromide and (adamantyl-1)bromomethylketone. Additionally, the efficiency of two methods was compared based on total yields of target reaction products.

**Keywords:** alkylation, 1*H*-imidazole, 1*H*-benzimidazole, 4-alkyloxybenzylchloride, counter synthesis

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