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SnCl₂/KI-Mediated Allylation Reactions of Formaldehyde in Water

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Abstract

An efficient procedure for SnCl₂/KI-mediated allylation reactions of formaldehyde with a variety of allylic bromides in aqueous solution is reported. Under conditions developed in this effort, various homoallylic alcohols and 2-halohomoallylic alcohols are produced in good to excellent yields.

Key words : SnCl₂/KI-mediated allylation reactions; Aqueous solution;
Formaldehyde; Homoallylic alcohols; 2-halohomoallylic alcohols