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$$R^{1} \xrightarrow{\mathsf{NR}^{2}} \mathsf{XR}^{2} \xrightarrow{\mathsf{air, Sml}_{3} (5 \, \mathsf{mol}\%), \, \mathsf{I}_{2} \, (\mathsf{1-2} \, \mathsf{mol}\%)} R^{1} \xrightarrow{\mathsf{NR}^{2}} \mathsf{XR}^{2}$$

 R^1 , R^2 = aryl, or alkyl; R^3 = alkyl; X=O, or N



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