

Article Abstract

Title:	The effective reaction of 2-chloro-3-formylquinoline and acetic acid/sodium acetate under microwave irradiation
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Abstract:	Pyrano[2,3- <i>b</i>]quinolin-2-ones have been synthesized efficiently from 2-chloro-3-formylquinolines in a single step by treating with sodium acetate and acetic acid under microwave irradiation. The structures of the compounds have been established by IR, NMR and mass spectral data. Unexpectedly, 3-formylquinolin-2(1 <i>H</i>)-ones were exclusively formed in very high yields by changing the molar ratio of acetic acid and sodium acetate in just 1.5 to 2.5 min.
Keywords:	pyrano, microwave, quinolines, solventless, acetic acid.