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CITRIC ACID AS A GREEN CATALYST PROMOTED SYNTHESIS OF POLYSUBSTITUTED DIHIDRO-2-OXYPYRROLE DERIVATIVES

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Abstract. Citric acid was successfully used as a catalyst for one-pot four-component condensation reaction of dialkyl acetylenedicarboxylate, formaldehyde and amines (aromatic and aliphatic) to afford the corresponding polysubstituted dihydro-2-oxypyrrole derivatives under ambient temperature with easy isolation of products, and no column chromatographic separation, in high yields and short reaction times.

Keywords: polysubstituted dihydro-2-oxypyrrole, citric acid, mild reaction conditions.