Synthesis of Some New Electron
π-Donors Containing Methoxy Groups

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The synthesis of some new electron π-donors carrying four or two methoxy groups is described. The precursor \(5,6\)-dimethoxy-\(5,6\)-dihydro-[1,3]dithioloo[4,5-\(b\)] [1,4]dithiin-2-thione was synthesized and by coupling reactions the symmetrical \(5,6,5',6'\)-tetramethoxy-\(5,6,5',6'\)-tetrahydro-[2,2']bi[1,3]dithioloo[4,5-\(b\)] [1,4]dithiinylidene and unsymmetrical \(5,6\)-dimethoxy-\(5,6,5',6'\)-tetrahydro-[2,2']bi[1,3]dithioloo[4,5-\(b\)] [1,4]dithiinylidene, \(2-(5,6\)-dimethoxy-\(5,6\)-dihydro-[1,3]dithioloo[4,5-\(b\)] [1,4]dithiiin-2-yldiene)-5,6-dihydro-[1,3]dithioloo[4,5-\(b\)] [1,4]-dioxine and \(5,6\)-dimethoxy-\(5,6\)-dihydro-[1,3]dithioloo[4,5-\(b\)] [1,4]dithiiin-2-yldiene)-6,7-dihydro-\(5\)\textbf{H}–[1,3]dithioloo[4,5-\(b\)] [1,4]dithiepine donors were prepared. They have been characterized spectroscopically and their redox potentials determined using cyclic voltammetry.

\textit{Key words:} π-Donors, Tetrathiafulvalenes, Cyclic Voltammetry