Synthesis of 2,2′-(1,4-Phenylene)bis-3,4-dihydro-2H-1,3-thiazin-4-ones and their Facile Recyclization to 2,2′-(1,4-Phenylene)bis(pyrimidin-4-one) and/or 2,2′-(1,4-Phenylene)-bis-(thieno[2,3-d]pyrimidin-4(1H)-one) Derivatives

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An efficient and direct procedure for the synthesis of 2,2′-(1,4-phenylene)bis-3,4-dihydro-2H-1,3-thiazin-4-one derivatives is described. Oxidation of the latter and their base-catalyzed recyclization has been studied. The products were characterized by elemental analyses, and IR, $^1$H NMR, and $^{13}$C NMR spectra.

Key words: Terephthalaldehyde, Cyanoacetamide, Phenyl (Phenethyl) Isothiocyanate, Bis-1,3-thiazin-4-one, Bis-pyrimidin-4-one, Bis-thieno[2,3-d]pyrimidin-4-one