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| Abstract |  |
| A one-step synthesis of 5,7-diaryl-1,5-dihydro-pyrano[2,3-*d*]pyrimidin-2,4-diones, **3a-c** and 5,7-diaryl-2-thioxo-1,2,3,5-tetrahydropyrano[2,3-*d*]pyrimidin-4-ones, **3d-g** was achieved by the cyclocondensation of barbituric acid or thiobarbituric acid (**1**) with arylideneacetophenones, **2a-d** in glacial acetic acid in presence of phosphorous pentoxide. The structures of the compounds **3a-g** were determined by their UV, IR, 1H NMR, 13C NMR, mass spectral data and elemental analyses. | |