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| Title | Spectral correlation of synthesized ethyl-4-(subs. phenyl)-6-methyl-2-oxo (or thio)-1, 2, 3, 4-tetrahydropyrimidine-5-carboxylate. | | |
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| Abstract |  |
| Urea or thiourea, ethyl acetoacetate, and substituted aromatic aldehydes were combined in a one-pot Biginelli coupling reaction to create a few 1, 2, 3, 4-tetrahydro pyrimidine-5-carboxylate derivatives without any unsafe organic solvent. The catalyst used for this reaction was nickel nitrate hexahydrate [Ni(NO3)2.6(H2O)]. The elemental analyses, mass spectral data, 1H-NMR, 13C-NMR, UV, and IR were used to characterize the separated pure products. | |