

Synthesis and intramolecular cyclization of ketostabilized phosphorus bisylide under microwave irradiation

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2*H*,6*H*-indolizino[2,1-*f*]pyrido[2,1-*a*]isoindole.

Abstract

The synthesis of phosphorus bisylide based on β -phenyl- β -alanine and pyromellitic dianhydride is implemented and its intramolecular cyclization under microwave irradiation is studied. As a result polyheterocyclic product with symmetric structure – 4,10-diphenyl-3,4,8,10,11-tetrahydro-2*H*,6*H*-indolizino[2,1-*f*]pyrido[2,1-*a*]isoindol-2,6,8,12-terion is received regioselectively.