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Synthesis of new 2-[2-(dialkyl(diaryl)-phosphoryl)-2-methylpropyl]quinoline-4-carboxylic acids

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Abstract

© 2015 Springer Science+Business Media New York. [Figure not available: see fulltext.] A Pfitzinger reaction of isatin with 2-methyl-(4-oxopent-2-yl)dialkyl(diphenyl)phosphine oxides was used to synthesize new derivatives of 4-quinolinecarboxylic acids, containing a phosphine oxide fragment, and screening for antimicrobial activity was performed.

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Keywords

4-phosphoryl ketones, dimephosphone, isatin, Pfitzinger reaction, quinoline, quinolinecarboxylic acids