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"Gheorghe Asachi" Technical University of Iasi, Romania

GREEN SYNTHESIS OF SYMMETRICAL CARBONATE FT-IR STUDY

Adina-Elena Segneanu[1*], Raluca Pop[1], Ionel Balcu[1], Corina Macarie[1], Marius Milea[2], Raluca Martagiu[1], Cristian George Vaszilcsin[1]

[1]National Institute of R&D for Electrochemistry and Condensed Matter – INCEMC– Timisoara, 144 A. P. Podeanu Street, 300569 Timisoara, Romania
[2]University „Politehnica" Timisoara, Faculty of Industrial Chemistry and Environment Engineering, 2 Victoriei Square, 300006 Timisoara, Romania

Abstract

An original method for the preparation of *N,N'*-bis(endo-5-norbornen-2,3-dicarboxy-imidyl) carbonate from endo-*N*-hydroxy-5-norbornen-2,3-dicarboximide in basic catalyst has been investigated. FT-IR studies performed in order to monitor the reaction allowed the identifying of the laboratory optimal conditions (reaction time, molar ratio). The method requires limited quantities of organic solvents and reagents, leading to an economical and environmental friendly process for the preparation of a new symmetrical organic carbonate.

Key words: endo-N-hydroxi-5-norbornen-2,3-dicarboximide, symmetrical reactive carbonates

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[*] Author to whom all correspondence should be addressed: e-mail: s_adinaelena@yahoo.com