

Resonance electron capture by molecules of *N*-alkylphthalimides and methyl esters of *N*-phthalyl amino acids

© Danila V. Mavrodiev,⁺ Marat F. Abdullin, Dmitriy A. Sainiev,

Ilshat M. Sakhautdinov, Darya V. Gamirova, Vladimir K. Mavrodiev,* and Ivan I. Furlei

Institute of Organic Chemistry of Ufa Scientific Center. Prospekt Oktyabrya, 71. Ufa, 450054. Baskortostan Republic. Russia. Phone: +7 (347) 235-55-60. Fax: +7 (347) 235-60-66. E-mail: elmolek@anrb.ru

*Supervising author; ⁺Corresponding author

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Abstract

The processes of negative ion formation under the resonance electron capture by molecules of several *N*-alkylphthalimide derivatives and *N*-phthalyl amino acids' methyl esters were studied. These molecules during the thermal electron capture formed long-living molecular negative ions with lifetimes relative to electron auto-detachment depending on both the number of vibrational degrees of freedom of a molecule and intramolecular interaction in the case of *N*-phthalyl amino acids' methyl esters.