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[home](#) [page](#) [about us](#) [contact](#)

[us](#)

Table of
Contents

IN PRESS

PPS 2015

PPS 2014

PPS 2013

PPS 2012

PPS 2011

PPS 2010

PPS 2009

PPS 2008

PPS 2007

PPS 2006

PPS 2005

PPS 2004

PPS 2003

PPS 2002

PPS Home

**Editorial
Board**

For Authors

- **Authors
Declaration**
- **Instruction
to Authors**
- **Guide for
Authors**
- **Copyright
Statement**
- **Submission**

**For
Reviewers**

- **Guide for
Reviewers**
 - **Reviewers
Login**
-

Subscription

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[[fulltext](#)]

Carbofuran is an anticholinesterase carbamate commonly used as an insecticide, nematicide and acaricide in agricultural practice throughout the world. The aim of the study was to investigate the acute toxicity of carbofuran to selected species of aquatic organisms (the guppy *Poecilia reticulata* Peters, the water flea *Daphnia magna* Straus and the green alga *Raphidocelis subcapitata* Korsikov), and to a terrestrial organism (a white mustard *Sinapis alba* Linné). *Daphnia magna* Straus was found to be the most sensitive organism.

Keywords:

carbofuran; *Poecilia reticulata*; *Daphnia magna*; *Raphidocelis subcapitata*; *Sinapis alba*; acute toxicity

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