



## OECD 202: daphnia sp, acute immobilisation test - limit test and EC<sub>50</sub> - GLP

### Application field

This test is applicable to readily and poorly soluble and volatile substance.

### Interests

The purpose of this test is to determine acute toxicity effects of chemicals towards daphnies..

### Principle of the test

Young daphnies, aged less than 24 hours at the start of the test, are exposed to the test substance at a concentration of 100 mg/l in the limit test, or at a range of five concentrations in the full study (EC50 test) for a period of 48 hours.

### Normative references

OECD Guidelines for testing of Chemicals – Daphnia sp., Acute immobilisation test. N° 202 – 13/04/2004.

### Restrictions

- For chemicals of low solubility in water, the maximum concentration should not exceed the limit of solubility in the dilution water.
- A reliable analytical method for the quantification of the test substance in the test solution must be available.



### Expression of results

#### *Limit test:*

if immobilisation is > 10% a EC50 test should be conducted.

#### *EC50 test:*

data are analysed by appropriate statistical methods to calculate the EC50 with 95% confidence limits.

### Number of products

#### Quantity necessary to the analysis

Quantity on request with the following information:

- Name of the product
- Batch number
- Expiry data
- Storage and stability conditions
- Qualitative composition
- Quantitative composition
- Certificate of analysis
- Water solubility
- pKa value
- n-Octanol/water partition coefficient

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