

# OECD GUIDELINES FOR TESTING OF CHEMICALS

## Full List of Test Guidelines September 2009

### SECTION 1 - PHYSICAL-CHEMICAL PROPERTIES

Summary of Considerations in the Report from the OECD Expert Group on Physical Chemistry

No.	Title	Original Adoption	No. of Updates	Most Recently Updated
101	UV-VIS Absorption Spectra	12 May 1981	0	---
102	Melting Point/Melting Range	12 May 1981	1	27 July 1995
103	Boiling Point	12 May 1981	1	27 July 1995
104	Vapour Pressure	12 May 1981	1	23 March 2006
105	Water Solubility	12 May 1981	1	27 July 1995
106	Adsorption/Desorption Using a Batch Equilibrium Method	12 May 1981	1	21 January 2000
107	Partition Coefficient (n-octanol/water): Shake Flask Method	12 May 1981	1	27 July 1995
108	Complex Formation Ability in Water	12 May 1981	0	---
109	Density of Liquids and Solids	12 May 1981	1	27 July 1995
110	Particle Size Distribution/Fibre Length and Diameter Distributions	12 May 1981	0	---
111	Hydrolysis as a function of pH	12 May 1981	1	13 April 2004
112	Dissociation Constants in Water	12 May 1981	0	---
113	Screening Test for Thermal Stability and Stability in Air	12 May 1981	0	---
114	Viscosity of Liquids	12 May 1981	0	---
115	Surface Tension of Aqueous Solutions	12 May 1981	1	27 July 1995
116	Fat Solubility of Solid and Liquid Substances	12 May 1981	0	---

<b>No.</b>	<b>Title</b>	<b>Original Adoption</b>	<b>No. of Updates</b>	<b>Most Recently Updated</b>
117	Partition Coefficient (n-octanol/water), HPLC method	30 March 1989	1	13 April 2004
118	Determination of the Number-Average Molecular Weight and the Molecular Weight Distribution of Polymers using Gel Permeation Chromatography	14 June 1996	0	---
119	Determination of the Low Molecular Weight Content of a Polymer Using Gel Permeation Chromatography	14 June 1996	0	---
120	Solution/Extraction Behaviours of Polymers in Water	14 June 1996	1	21 January 2000
121	Estimation of the Adsorption Coefficient ( $K_{oc}$ ) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC)	22 January 2001	0	---
123	Partition Coefficient (1-Octanol / Water): Slow-Stirring Method	23 March 2006	0	---

## **SECTION 2 - EFFECTS ON BIOTIC SYSTEMS**

Summary of Considerations in the Report from the OECD Expert Group on Ecotoxicology

<b>No.</b>	<b>Title</b>	<b>Original Adoption</b>	<b>No. of Updates</b>	<b>Most Recently Updated</b>
201	Alga, Growth Inhibition Test	12 May 1981	2	23 March 2006
202	<i>Daphnia</i> sp. Acute Immobilisation Test	12 May 1981 (adopted as <i>Daphnia</i> sp.14-day Reproduction Test including an Acute Immobilisation Test)	2	13 April 2004
203	Fish, Acute Toxicity Test	12 May 1981	2	17 July 1992
204	Fish, Prolonged Toxicity Test: 14-Day Study	4 April 1984	0	---
205	Avian Dietary Toxicity Test	4 April 1984	0	---
206	Avian Reproduction Test	4 April 1984	0	---
207	Earthworm, Acute Toxicity Tests	4 April 1984	0	---
208	Terrestrial Plants, Growth Test	4 April 1984	1	19 July 2006
209	Activated Sludge, Respiration Inhibition Test	4 April 1984	0	---
210	Fish, Early-Life Stage Toxicity Test	17 July 1992	0	---
211	<i>Daphnia magna</i> Reproduction Test	21 September 1998	1	3 October 2008
212	Fish, Short- term Toxicity Test on Embryo and Sac-fry Stages	21 September 1998	0	---
213	Honeybees, Acute Oral Toxicity Test	21 September 1998	0	---
214	Honeybees, Acute Contact Toxicity Test	21 September 1998	0	---
215	Fish, Juvenile Growth Test	21 January 2000	0	---
216	Soil Microorganisms: Nitrogen Transformation Test	21 January 2000	0	---

No.	Title	Original Adoption	No. of Updates	Most Recently Updated
217	Soil Microorganisms:Carbon Transformation Test	21 January 2000	0	---
218	Sediment-Water Chironomid Toxicity Using Spiked Sediment	13 April 2004	0	---
219	Sediment-Water Chironomid Toxicity Using Spiked Water	13 April 2004	0	---
220	Enchytraeid Reproduction Test	13 April 2004	0	---
221	<i>Lemna</i> sp. Growth Inhibition Test	23 March 2006	0	---
222	Earthworm Reproduction Test ( <i>Eisenia fetida</i> / <i>Eisenia andrei</i> )	13 April 2004	0	---
224	Determination of the activity of anaerobic bacteria - reduction of gas production from anaerobically sewage sludge	10 January 2007	0	---
225	Sediment-Water <i>Lumbriculus</i> Toxicity Test Using Spiked Sediment	16 October 2007	0	---
226	Predatory Mite ( <i>Hypoaspis (Geolaelaps) Aculeifer</i> ) Reproduction Test in Soil	3 October 2008	0	---
227	Terrestrial Plant Test: Vegetative Vigour Test	19 July 2006	0	---
228	Determination of Developmental Toxicity of a Test Chemical to Dipteran Dung Flies ( <i>Scathophaga Stercoraria</i> L. ( <i>Scathophagidae</i> ) and <i>Musca autumnalis</i> De Geer ( <i>Muscidae</i> )	7 September 2009	0	---
229	Fish Short Term Reproduction Assay	7 September 2009	0	---
230	21-Day Fish Assay: A Short Term Screening for Oestrogenic and Androgenic Activity, and Aromatase Inhibition	7 September 2009	0	---
231	Amphibian Metamorphosis Assay	7 September 2009	0	---

232	Collembolan Reproduction Test in Soil	7 September 2009	0	---
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### **SECTION 3 - DEGRADATION AND ACCUMULATION**

Summary of Considerations in the Report from the OECD Expert Group on Degradation/Accumulation

<b>No.</b>	<b>Title</b>	<b>Original Adoption</b>	<b>No. of Updates</b>	<b>Most Recently Updated</b>
301	Ready Biodegradability 301A : DOC Die-Away Test 301B : Co2 Evolution Test 301C : Modified MITI Test (I) 301D : Closed Bottle Test 301E : Modified OECD Screening Test 301F : Manometric Respirometry Test	12 May 1981	1	17 July 1992
302A	Inherent Biodegradability: Modified SCAS Test	12 May 1981	0	---
302B	Inherent Biodegradability: Zahn-Wellens/EMPA Test	12 May 1981	1	17 July 1992
302C	Inherent Biodegradability: Modified MITI Test (II)	12 May 1981	0	---
303	Simulation Test – Aerobic Sewage Treatment A: Activated Sludge Units B: Biofilms	12 May 1981	1	22 January 2001
304A	Inherent Biodegradability in Soil	12 May 1981	0	---
305	Bioconcentration: Flow-Through Fish Test	12 May 1981	1	14 June 1996
306	Biodegradability in Seawater	17 July 1992	0	---
307	Aerobic and Anaerobic Transformation in Soil	24 April 2002	0	---
308	Aerobic and Anaerobic Transformation in Aquatic Sediment Systems	24 April 2002	0	---
309	Aerobic Mineralisation in Surface Water – Simulation Biodegradation Test	13 April 2004	0	
310	Ready Biodegradability - CO <sub>2</sub> in sealed vessels (Headspace Test)	23 March 2006	0	---

<b>No.</b>	<b>Title</b>	<b>Original Adoption</b>	<b>No. of Updates</b>	<b>Most Recently Updated</b>
311	Anaerobic Biodegradability of Organic Compounds in Digested Sludge: by Measurement of Gas Production	23 March 2006	0	---
312	Leaching in Soil Columns	13 April 2004	0	---
313	Estimation of Emissions from Preservative - Treated Wood to the Environment: Laboratory Method for Wooden Commodities that are not Covered and are in Contact with Fresh Water or Seawater	16 October 2007	0	---
314	Simulation Tests to Assess the Biodegradability of Chemicals Discharged in Wastewater	3 October 2008	0	---
315	Bioaccumulation in Sediment-dwelling Benthic Oligochaetes	3 October 2008	0	---
316	Phototransformation of Chemicals in Water- Direct Photolysis	3 October 2008	0	---

## **SECTION 4 - HEALTH EFFECTS**

Summary of Considerations in the Report from the OECD Expert Groups on Short and Long Term Toxicology

<b>No.</b>	<b>Title</b>	<b>Original Adoption</b>	<b>No. of Updates</b>	<b>Most Recently Updated</b>
401	Acute Oral Toxicity	12 May 1981	1	Date of Deletion: 20 December 2002
402	Acute Dermal Toxicity	12 May 1981	1	24 February 1987
403	Acute Inhalation Toxicity	12 May 1981	1	7 September 2009
404	Acute Dermal Irritation/Corrosion	12 May 1981	2	24 April 2002
405	Acute Eye Irritation/Corrosion	12 May 1981	2	24 April 2002
406	Skin Sensitisation	12 May 1981	1	17 July 1992
407	Repeated Dose 28-Day Oral Toxicity Study in Rodents	12 May 1981	2	3 October 2008
408	Repeated Dose 90-Day Oral Toxicity Study in Rodents	12 May 1981	1	21 September 1998
409	Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents	12 May 1981	1	21 September 1998
410	Repeated Dose Dermal Toxicity:90-Day	12 May 1981	0	---
411	Subchronic Inhalation Toxicity: 90-Day	12 May 1981	0	---
412	Subacute Inhalation Toxicity: 28-Day Study	12 May 1981	1	7 September 2009
413	Subchronic Inhalation Toxicity: 90-Day Study	12 May 1981	1	7 September 2009
414	Prenatal Developmental Toxicity Study	12 May 1981	1	22 January 2001
415	One-Generation Reproduction Toxicity	26 May 1983	0	---
416	Two-generation Reproduction Toxicity Study	26 May 1983	1	22 January 2001

No.	Title	Original Adoption	No. of Updates	Most Recently Updated
417	Toxicokinetics	4 April 1984	0	---
418	Delayed Neurotoxicity of Organophosphorus Substances Following Acute Exposure	4 April 1984	1	27 July 1995
419	Delayed Neurotoxicity of Organophosphorus Substances: 29-Day Repeated Dose Study	4 April 1984	1	27 July 1995
420	Acute Oral toxicity – Fixe Dose Procedure	17 July 1992	1	17 December 2001
421	Reproduction/Developmental Toxicity Screening Test	27 July 1995	0	---
422	Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	22 March 1996	0	---
423	Acute Oral Toxicity – Acute Toxic Class Method	22 March 1996	1	17 December 2001
424	Neurotoxicity Study in Rodents	21 July 1997	0	---
425	Acute Oral Toxicity: Up-and-Down Procedure	21 September 1998	2	23 March 2006
426	Developmental Neurotoxicity Study	16 October 2007	0	---
427	Skin Absorption: <i>In Vivo</i> Method	13 April 2004		---
428	Skin Absorption: <i>In Vitro</i> Method	13 April 2004		---
429	Skin Sensitisation: Local Lymph Node Assay	24 April 2002	0	---
430	<i>In Vitro</i> Skin Corrosion: Transcutaneous Electrical Resistance Test (TER)	13 April 2004	0	---
431	<i>In Vitro</i> Skin Corrosion: Human Skin Model Test	13 April 2004	0	---
432	<i>In Vitro</i> 3T3 NRU Phototoxicity Test	13 April 2004	0	---

No.	Title	Original Adoption	No. of Updates	Most Recently Updated
435	<i>In Vitro</i> Membrane Barrier Test Method for Skin Corrosion	19 July 2006	0	---
436	Acute Inhalation Toxicity - Acute Toxic Class Method	7 September 2009	0	---
437	Bovine Corneal Opacity and Permeability Test Method for Identifying Ocular Corrosives and Severe Irritants	7 September 2009	0	---
438	Isolated Chicken Eye Test Method for Identifying Ocular Corrosives and Severe Irritants	7 September 2009	0	---
440	Uterotrophic Bioassay in Rodents: A short-term screening test for oestrogenic properties	16 October 2007	0	---
441	Hershberger Bioassay in Rats: A short-term Screening Assay for (Anti)Androgenic Properties	7 September 2009	0	---
451	Carcinogenicity Studies	12 May 1981	1	7 September 2009
452	Chronic Toxicity Studies	12 May 1981	1	7 September 2009
453	Combined Chronic Toxicity/Carcinogenicity Studies	12 May 1981	1	7 September 2009
455	Stably Transfected Human Estrogen Receptor- $\alpha$ Transcriptional Activation Assay for the Detection of Estrogenic Agonist-Activity of Chemicals	7 September 2009	0	---

Introduction to the OECD Guidelines on genetic toxicology testing and guidance on the selection and application of assays

No.	Title	Original Adoption	No. of Updates	Most Recently Updated
471	Bacterial Reverse Mutation Test	26 May 1983	1	21 July 1997
472	Genetic Toxicology: <i>Escherichia coli</i> , Reverse Assay	26 May 1983	0	Date of deletion : 21 July 1997 (Method merged with TG 471)

No.	Title	Original Adoption	No. of Updates	Most Recently Updated
473	<i>In Vitro</i> Mammalian Chromosome Aberration Test	26 May 1983	1	21 July 1997
474	Mammalian Erythrocyte Micronucleus Test	26 May 1983	1	21 July 1997
475	Mammalian Bone Marrow Chromosome Aberration Test	4 April 1984	1	21 July 1997
476	<i>In Vitro</i> Mammalian Cell Gene Mutation Test	4 April 1984	1	21 July 1997
477	Genetic Toxicology: Sex-Linked Recessive Lethal Test in <i>Drosophila melanogaster</i>	4 April 1984	0	---
478	Genetic Toxicology: Rodent dominant Lethal Test	4 April 1984	0	---
479	Genetic Toxicology: <i>In Vitro</i> Sister Chromatid Exchange assay in Mammalian Cells	23 October 1986	0	---
480	Genetic Toxicology: <i>Saccharomyces cerevisiae</i> , Gene Mutation Assay	23 October 1986	0	---
481	Genetic Toxicology: <i>Saccharomyces cerevisiae</i> , Mitotic Recombination Assay	23 October 1986	0	---
482	Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells <i>In Vitro</i>	23 October 1986	0	---
483	Mammalian Spermatagonial Chromosome Aberration Test	23 October 1986	1	21 July 1997
484	Genetic Toxicology: Mouse Spot Test	23 October 1986	0	---
485	Genetic Toxicology: Mouse Heritable Translocation Assay	23 October 1986	0	---
486	Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells <i>In Vivo</i>	21 July 1997	0	---

## **SECTION 5 – OTHER TEST GUIDELINES**

### Part A: Pesticide Residue Chemistry

<b>No.</b>	<b>Title</b>	<b>Original Adoption</b>	<b>No. of Updates</b>	<b>Most Recently Updated</b>
501	Metabolism in Crops	10 January 2007	0	---
502	Metabolism in Rotational Crops	10 January 2007	0	---
503	Metabolism in Livestock	10 January 2007	0	---
504	Residues in Rotational Crops (Limited Field Studies)	10 January 2007	0	---
505	Residues in Livestock	10 January 2007	0	---
506	Stability of Pesticide Residues in Stored Commodities	16 October 2007	0	---
507	Nature of the Pesticide Residues in Processed Commodities- High Temperature Hydrolysis	16 October 2007	0	---
508	Magnitude of Pesticide Residues in Processed Commodities	3 October 2008	0	---
509	Crop Field Trial	7 September 2009	0	---