	Renata+Alena	Luděk+Aneta
	- k dispozici máte max. 100 mg atrazinu	- k dispozici máte max. 100 mg chlorpyrifosu
	1. Atrazin	**2. Chlorpyrifos**
CAS number	1912-24-9	2921-88-2
Molecular formula	$C_8H_{14}ClN_5$	$C_9H_{11}Cl_3NO_3PS$
Molecular mass [g/mol]	215.68	350.59
Water solubility; 20°C [g/l]	0.03[p]	1.1e-3[c]
Vapour pressure; 20°C [Pa]	4 exp-5[p]	1.43e-3[c]
Density [g/cm3]	1.187 g/cm^3	1.398 g/cm^3 (43.5 °C)
Boiling point[°C]	200	170 - 180[c]
Melting point [°C]	173-177[p]	41-42[c]
Kow (log P)	2.6[p]	4.7[c]
Safety information = R-/S- statements	R: 43-48/22-50/53-39/23/24/25-23/24/25-11-38-36/37/38-20/21/22 , S: 2-36/37-60-61-45-16-7-36-26 [q]	R20/22-65-38-50/53, S24-36/37-46-60-61[d]
EFFECT CONCENTRATIONS in **ug/L** from US EPA ECOTOX Database		
EC50 : *Pseudokirchneriella subcapitata**	331.10	>25 000
EC50 : *Daphnia magna*	46749.61	0.93
EC50: *Vibrio fischeri*	39000*	2840*
Molární koncentrace zásobního roztoku, který máte k dispozici [mol/L]	0.0464	0.0285
CONCENTRATIONS TO BE TESTED **mg/L** or **ug/L** and **DF=Dilution Factor**		
Raphidocelis subcapitata (Green algae)	**0.008-0.04-0.2-1-5 mg/L (DF=5)**	**0.04-0.2-1-5-25 mg/L (DF=5)**
Daphnia magna (Crustaceans)	**6.25-12.5-25-50-100 mg/L (DF=2)**	**0.016-0.08-0.4-2-10 ug/L (DF=5)**
Vibrio fischeri (Bacteria)	**6.25-12.5-25-50-100 mg/L (DF=2)**	**0.625-1.25-2.5-5-10 mg/L (DF=2)**
QA/QC	Fluka analytical, Atrazine PESTANAL analytical standard, 45330-250MG, Lot#SZBC206XV, exp. 7/2017	Fluka analytical, Chlorpyrifos PESTANAL analytical standard, 45395-250MG, Lot# SZBA141XV, exp. 5/2015

Notes:

* experimental data RECETOX, December 2013, Zuzana Rabova

*Palma, P., Palma, V. L., Fernandes, R. M., Soares, a M. V. M., & Barbosa, I. R. (2008). Acute toxicity of atrazine, endosulfan sulphate and chlorpyrifos to Vibrio fischeri, Thamnocephalus platyurus and Daphnia magna, relative to their concentrations in surface waters from the Alentejo region of Portugal. *Bulletin of environmental contamination and toxicology* , *81* (5), 485–9. doi:10.1007/s00128-008-9517-3

*Palma, P., Palma, V. L., Fernandes, R. M., Soares, a M. V. M., & Barbosa, I. R. (2008). Acute toxicity of atrazine, endosulfan sulphate and chlorpyrifos to Vibrio fischeri, Thamnocephalus platyurus and Daphnia magna, relative to their concentrations in surface waters from the Alentejo region of Portugal. *Bulletin of environmental contamination and toxicology* , *81* (5), 485–9. doi:10.1007/s00128-008-9517-3

všichni	Tomáš+Filip	
Pozitivní kontrola		Rozpouštědlo
- k dispozici máte dichroman draselný $K_2Cr_2O_7$, zadané koncentrace v ředicích řadách udávají koncentraci **dichromanu draselného** v testu	- k dispozici máte max. 100 mg dodinu	
3. Chromium - potassium dichromate	**5. Dodine**	**6. Methanol**
7778-50-9	2439-10-3	67-56-1
K2Cr2O7	C15H33N3O2	CH_4O
294.19	287.44	32.04
125[m]	0.63[t]	neomezeně mísitelný[o]
nevýznamné[n]	1.3[t]	13020
2.676 g/cm^3	0.9±0.1 g/cm3	
500		64.7
398	136[t]	-98
- (nikde nic není)	-0.88[u]	-0.69
R: 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53-52/53-20-48/20-23-51/53-22-36/37/38 , S: 53-45-60-61-36/37-23-26 [m]	R22-R36/38-R50/53, S26-S60-S61	R: 10-20/21/22-68/20/21/22-39/23/24/25-23/24/25-11-40-36-36/38-23/25 , S: 36/37-7-45-16-24/25-23-24
3051.10	900.00	> 10% v/v
374.40	39.41	9635562.69
333700*(6000**)	862.32*	-
0.00679 ($K_2Cr_2O_7$)	0.0348	-
1.25-2.5-5-10 mg/L (DF=2)	**0.25-0.5-1-2-4 mg/L (DF=2)**	3.125-6.25-12.5-25-50 % v/v
0.05-0.1-0.2-0.4-0.8 mg/L (DF=2)	**1.6-8-40-200-1000 ug/L (DF=5)**	3.125-6.25-12.5-25-50 % v/v
53 mg/L	**0.25-0.5-1-2-4 mg/L (DF=2)**	
Lachner, Potassium dichromate, index # 024-002-00-6, cathegory # 30020-APO, exp. 10/2015, batch PP/2010/11749	Fluka Analytical, Dodin PESTANAL analytical standard, 45466-250MG, Lot#SZB9215XV, exp. 8/2016	Lachner, Methanol for pesticide residue analysis, 67-56-1, index#603-001-00-X, EINECS # 200-659-6, Batch 2013-4080, 20038-RTO, exp.03/2016

*Fulladosa, E., Murat, J. C., & Villaescusa, I. (2005). Effect of cadmium(II), chromium(VI), and arsenic(V) on long-term viability- and growth-inhibition assays using Vibrio fischeri marine bacteria. *Archives of environmental contamination and toxicology* , *49* (3), 299–306. doi:10.1007/s00244-004-0170-5

* EC50 approximated from EC50 for *Vibrio qinghaiensis reported in:* Liu, S.-S., Wang, C.-L., Zhang, J., Zhu, X.-W., & Li, W.-Y. (2013). Combined toxicity of pesticide mixtures on green algae and photobacteria. Ecotoxicology and environmental safety, 95, 98–103. doi:10.1016/j.ecoenv.2013.05.018

** experimental data
RECETOX, Petr Masner

Lucka+Anna	Zuzka+Jakub	
- k dispozici máte hexahydrát chloridu nikelnatého, zadané koncentrace v ředicích řadách udávají koncentraci **niklu** v testu	- k dispozici máte max. 1g triclosanu	
7. Nickel chloride hexahydrate	**8. Triclosan**	Sources
7791-20-0	3380-34-5	[a] http://wirud-ingredients.com/certi
Cl2H12NiO6	$C_{12}H_7Cl_3O_2$	[aa] http://www.chemicalbook.com/Pr
237.69	289.54	[b] http://www.inchem.org/documents
2540	0.01[a]	[c] http://ec.europa.eu/food/plant/prot
nevýznamné[l]	7e-4[a]	[d] http://www.ellagret.gr/images/proc
	1.49 g/cm^3	
973[l]	120	[e] https://circabc.europa.eu/sd/d/837
140	56 - 58[a]	[f] http://www.capl.sci.eg/ActiveIngre
- (nikde nic není)	4.8[a]	[g] http://sitem.herts.ac.uk/aeru/ppdb
R: 45-25-36/38-43-50/53 , S: 53-36/37-45-60-61-37-29-24 [k]	R: 36/38-50/53-36/37/38 , S: 26-39-46-60-61-24/25-22-36 [aa]	[h] http://www.chemicalbook.com/Ch
		[i] http://ces.iisc.ernet.in/energy/HC2
11070	> 250	[j] http://www.chemicalbook.com/Che
4012.69	301.39	[k] http://www.chemicalbook.com/Pro
7600*	280*	[n] http://www.acs.org/content/dam/a
1.780 (Ni)	0.0345	
6.25-12.5-25-50-100 mg/L (DF=2)	**0.4-2-10-50-250 ug/L (DF=5)**	[o] http://www.chemicalbook.com/Pro
6.25-12.5-25-50-100 mg/L (DF=2)	**62.5-125-250-500-1000 ug/L (DF=2)**	[p] http://www.cdpr.ca.gov/docs/risk/
3.125-6.25-12.5-25-50 mg/L (DF=2)	**1.6-8-40-200-1000 ug/L (DF=5)**	[q] http://www.chemicalbook.com/Ch
	Fluka Biochemika, Irgasan 5g, WB12926, Lot# 457018/1 12604135, EC No. 221822	[t] http://extoxnet.orst.edu/pips/dodin

*Farré, M., Asperger, D., Kantiani, L., González, S., Petrovic, M., & Barceló, D. (2008). Assessment of the acute toxicity of triclosan and methyl triclosan in wastewater based on the bioluminescence inhibition of Vibrio fischeri. Analytical and bioanalytical chemistry, 390(8), 1999–2007. doi:10.1007/s00216-007-1779-9

Petala, M. et al. 2005. Evaluation of toxic response of heavy metals and organic pollutants using microtox acute toxicity test.Proceedings of the 9th International Conference on Environmental Science and Technology. 1-3 Sept 2005

file:///G:/SAK-PAPYR-2297-9TH-CEST-RHODES-1-3-SEPT-2005-PP-1200-1205-Y-2005.pdf

ficates/subs/8_1.html
roductChemicalPropertiesCB6771432_EN.htm
s/icsc/icsc/eics0005.htm
tection/evaluation/existactive/list_chlorpyrifos.pdf
ducts/1248255789-CHLORPYRIFOS%20AGRODAN%2048%20EC%20MSDS.pdf

797096-6bc1-440f-8c35-561919feb2bf/Propiconazole_PT09_draft AR.pdf
dient/Propiconazole.html
/en/17.htm

emicalProductProperty_US_CB2437008.aspx

70799/HDL/ENV/enven/vol319.htm#cadmium

emicalProductProperty_EN_CB9687792.htm

oductChemicalPropertiesCB0396495_EN.htm
csorg/about/governance/committees/chemicalsafety/safetypractices/clip-potassium-dichromate.pdf

oductChemicalPropertiesCB7854099_EN.htm

rcd/atrazine.pdf

emicalProductProperty_US_CB6349448.aspx

e.htm