

Chlorpyrifos (CAS no. 2921-88-2)

[Current status]

Finished Tier 1 *in vivo* tests (Tier 1 assessment to be implemented)



Results of Reliability Evaluation (based on literature information)

Suggested Effects							
Estrogenic	Anti-estrogenic	Androgenic	Anti-androgenic	Thyroidal	Anti-thyroidal	Ecdysone	Others*
P	P	-	P	P	P	-	P

P: Effects suggested by existing information

-: Effects NOT suggested by existing information

Others*: Hypothalamic-Pituitary-Gonad Axis etc.

Results of Tier 1 *in vitro* tests

Tested Mode of Actions							
Estrogenic	Anti-estrogenic	Androgenic	Anti-androgenic	Thyroidal	Anti-thyroidal	Ecdysone	Others
(P)	N	N	N	N	N	N	-

P: EC₅₀ or IC₅₀ values were detected

N: EC₅₀ or IC₅₀ values were not detected

To be implemented: Mode of actions selected but not tested yet

-: Mode of actions not selected for testing

Results of Tier 1 *in vivo* tests

Fish Short Term Reproduction Assay (FSTRA: OECD TG229) using Medaka

In this study, an increase in male hepatic vitellogenin level was observed at sublethal concentrations to suggest estrogenic effect. But this increase was as small as 3.4 times the lower limit of quantification, thus inconclusive to suggest estrogenic or androgenic effects.