

2,2',4,4'-Tetrahydroxybenzophenone (Benzophenone-2) (CAS no. 131-55-5)

[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	P	P	N	P	-	-

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

An increase in male hepatic vitellogenin level was observed at sublethal concentrations, indicating its estrogenic effect.