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| Title | Physiological parameters for four fish species (rainbow trout, zebra fish, fathead minnow and three-spined stickleback) as the basis for the development of generic physiologically-based kinetic models |
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| Description | This excel file (DOI: 10.5281/zenodo.1414332) provides physiological parameters and their inter-individual variability (mean, coefficient of variation, sample size) for four fish species: rainbow trout (*Onchorhynchus mykiss*), zebrafish (*Danio rerio*), fathead minnow (*Pimephales promelas*), and three-spined stickleback (*Gasterosteus aculeatus*). These physiological parameters were estimated based on the results of extensive literature searches and specific experimental data described in Grech et al., (2018).  This file is associated with R codes (DOI: 10.5281/zenodo.1414332) for generic PB-K models, partition coefficient Quantitative Structure Activity Relationship (QSAR) models for each fish species and parameterisation of model for males and females of each species separately.  The full data collection and implementation of the models using case studies are described in Grech et al., 2018 (<https://doi.org/10.1016/j.scitotenv.2018.09.163>) |
| Keywords | Physiological parameters, rainbow trout, BK, mechanistic model, ecological risk assessment, chemicals |
| Additional notes | The dataset is in Excel |
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| Contributors | See authors’ list |
| References | Audrey Grech, Cleo Tebby, Celine Brochot, Frederic bois, Anne Bado-Nilles, Jean-Lou Dorne, Remi Beaudouin (2018) Development of generic physiologically based kinetic models for four fish species: rainbow trout, zebra fish, fathead minnow and three-spined stickleback. DOI: 10.5281/zenodo.1414332  Audrey Grech, Cleo Tebby, Celine Brochot, Frederic bois, Anne Bado-Nilles, Jean-Lou Dorne, Remi Beaudouin (2018) Physiological parameters for four fish species (rainbow trout, zebra fish, fathead minnow and three-spined stickleback) as the basis for the development of generic physiologically-based kinetic models  DOI: 10.5281/zenodo.1414332  Audrey Grech, Cleo Tebby, Celine Brochot, Frederic bois, Anne Bado-Nilles, Jean-Lou Dorne, Nadia Quignot, Remi Beaudouin (2018) Generic physiologically-based toxicokinetic modelling for fish: integration of environmental factors and parameterisation species variability. Science of the Total environment. In press. <https://doi.org/10.1016/j.scitotenv.2018.09.163> |
| Subjects | Physiological parameters, variability, fish physiology, rainbow trout, zebra fish, fathead minnow and three-spined stickleback |