Package: envirotox (via r-universe)

June 3, 2026

Title Envirotox Datasets

Version 0.0.0.9003

Description The envirotox R data package provides Species Sensitivity Distribution (SSD) datasets from the Envirotox database 2.0.0 (Connors et al. 2019). The datasets are provided for assessing general patterns in SSD data and testing code. The datasets should not be used to draw any conclusions about the toxicity of the individual chemicals.

License file LICENSE

URL https://poissonconsulting.github.io/envirotox/

Depends R (>= 3.5)

Suggests chk, dplyr, readr, ssdtools, testthat (>= 3.0.0), tidyr

Config/Needs/website poissonconsulting/poissontemplate

Config/testthat/edition 3

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

Config/roxygen2/version 8.0.0.9000

Repository https://poissonconsulting.r-universe.dev

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RemoteUrl https://github.com/poissonconsulting/envirotox

RemoteRef HEAD

RemoteSha c54996170311d13da9c325981d1079875c91e388

Contents

envirotox_acute *Acute Species Sensitivity Datasets*

Description

Acute Species Sensitivity Datasets

Usage

```
envirotox_acute
```

Format

envirotox_acute**:**

A data frame with 14,949 rows and 6 columns:

Chemical Chemical name (chr)

Conc Concentration of chemical in micrograms per litre (dbl).

Species Species name (chr).

Group Taxonomic group of species (chr).

Yanagihara24 Whether the dataset fits the criteria of Yanagihara et al. (2024) (flag).

Iwasaki25 Whether the dataset was included in Iwasaki et al. (2025) (flag).

Source

https://envirotoxdatabase.org/

References

Yanagihara, M., Hiki, K., and Iwasaki, Y. 2024. Which distribution to choose for deriving a species sensitivity distribution? Implications from analysis of acute and chronic ecotoxicity data. Ecotoxicology and environmental safety 278: 116379. doi:10.1016/j.ecoenv.2024.116379.

Iwasaki, Y., and Yanagihara, M. 2025. Comparison of model-averaging and single-distribution approaches to estimating species sensitivity distributions and hazardous concentrations for 5% of species. Environmental Toxicology and Chemistry 44(3): 834–840. doi:10.1093/etojnl/vgae060.

Examples

```
head(envirotox_acute)
```

envirotox_chemical *Envirotox Chemical Data*

Description

Envirotox Chemical Data

Usage

```
envirotox_chemical
```

Format

`envirotox_chemical`:
A data frame with 744 rows and 2 columns:

Chemical Chemical name (chr)

OriginalCAS Original Chemical Abstracts Service Registry Number (int)

Source

https://envirotoxdatabase.org/

Examples

```
head(envirotox_chemical)
```

envirotox_chronic *Chronic Species Sensitivity Datasets*

Description

Chronic Species Sensitivity Datasets

Usage

```
envirotox_chronic
```

Format

`envirotox_chronic`:
A data frame with 1,721 rows and 6 columns:

Chemical Chemical name (chr)

Conc Concentration of chemical in micrograms per litre (dbl).

Species Species name (chr).

Group Taxonomic group of species (chr).

Yanagihara24 Whether the dataset fits the criteria of Yanagihara et al. (2024) (flag).

Source

https://envirotoxdatabase.org/

References

Yanagihara, M., Hiki, K., and Iwasaki, Y. 2024. Which distribution to choose for deriving a species sensitivity distribution? Implications from analysis of acute and chronic ecotoxicity data. Ecotoxicology and environmental safety 278: 116379. doi:10.1016/j.ecoenv.2024.116379.

Examples

```
head(envirotox_chronic)
```

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list_datasets *Lists the datasets*

Description

Lists the names of the datasets in the package.

Usage

```
list_datasets()
```

Value

A character vector of the dataset names.

Examples

```
list_datasets()
```

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