

# Package ‘rxode2mrgsolvebridge’

May 18, 2026

**Type** Package

**Title** Convert Models Between 'rxode2' and 'mrgsolve'

**Version** 0.1.0

**Description** Provides an intermediate representation and file-oriented helpers for converting pharmacometric model code between 'rxode2' and 'mrgsolve'. The conversion uses a package-specific intermediate representation described by Hammami F (2026) ``rxode2-mrgsolve-bridge" <<https://gitlab.com/fiha1/rxode2-mrgsolve-bridge>>.

**URL** <https://gitlab.com/fiha1/rxode2-mrgsolve-bridge>

**BugReports** <https://gitlab.com/fiha1/rxode2-mrgsolve-bridge/-/issues>

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Imports** stats

**Suggests** mrgsolve, rxode2, testthat (>= 3.0.0), withr

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2026-05-18 18:40:07 UTC

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rxode2mrgsolvebridge *Convert models between rxode2 and mrgsolve*

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### Description

Provides a shared intermediate representation and file-oriented helpers for converting model code between rxode2 and mrgsolve.

### Usage

```
parse_rxode2_model(rx_mod, theta, model_name = NULL, description = NULL)
```

```
parse_mrgsolve_model(model_code, model_name = NULL, description = NULL)
```

```
parse_mrgsolve_file(path, model_name = NULL, description = NULL)
```

```
ir_to_mrgsolve(ir, tab = " ")
```

```
ir_to_rxode2(ir, model_name = NULL, include_observables_block = FALSE)
```

```
export_mrgsolve_model(ir, file, overwrite = TRUE)
```

```
export_rxode2_files(  
  ir,  
  out_dir = NULL,  
  model_name = NULL,  
  theta_name = "theta",  
  model_file = "model_rxode2.R",  
  theta_file = "theta.R",  
  overwrite = TRUE  
)
```

```
convert_rxode2_to_mrgsolve(  
  rx_model,  
  theta_file,  
  theta_name = "theta",  
  output_file = NULL,  
  output_basename = NULL,  
  out_dir = NULL,  
  model_name = NULL,  
  overwrite = TRUE  
)
```

```
convert_mrgsolve_to_rxode2(  
  mrgsolve_file,  
  output_basename = NULL,  
  out_dir = NULL,  
)
```

```

    rx_model_name = NULL,
    theta_name = "theta",
    model_file = NULL,
    theta_file = NULL,
    overwrite = TRUE
  )

```

## Arguments

<code>rx_mod, rx_model</code>	An rxode2 model object, rxode2 model code string, or, for <code>rx_model</code> , a path to an R file containing a named model object.
<code>theta</code>	Named numeric vector of parameter values.
<code>theta_file</code>	R file containing a named numeric theta vector.
<code>theta_name</code>	Name of the theta vector object to read or write.
<code>model_code</code>	Character string containing mrgsolve model code.
<code>path, mrgsolve_file</code>	Path to an mrgsolve model file.
<code>ir</code>	Model intermediate representation list.
<code>file, output_file</code>	Output mrgsolve file path.
<code>out_dir</code>	Output directory. Must be supplied explicitly by writing helpers; use <code>tempdir()</code> or <code>tempfile()</code> -based directories in examples and tests.
<code>model_name, rx_model_name</code>	Model name for metadata, lookup, or generated rxode2 object names.
<code>model_file</code>	Output file name for the rxode2 model file.
<code>output_basename</code>	Basename used to derive default output file names.
<code>description</code>	Optional model description.
<code>tab</code>	Indentation used when rendering mrgsolve code.
<code>include_observables_block</code>	Whether to render an explicit rxode2 observables block.
<code>overwrite</code>	Whether existing output files may be overwritten.

## Details

Default wrapper output names are derived from the input basename: `<input>_mrgsolve.cpp` for rxode2 to mrgsolve, and `<input>_rxode.R` plus `<input>_rxode_theta.R` for mrgsolve to rxode2. The wrappers only use these generated names after the caller supplies an explicit output directory, or after the caller supplies a complete output file path.

## Value

Parsing functions return an intermediate representation list. Rendering functions return character code or code/theta lists. Export and conversion functions return output paths invisibly.

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