

NAME

SplitSDFfiles.pl - Split SDFfile(s) into multiple SD files

SYNOPSIS

SplitSDFfiles.pl SDFfile(s)...

SplitSDFfiles.pl [-c, --CmpdsMode *DataField* | *MolName* | *RootPrefix*] [-d, --DataField *DataFieldName*] [-h, --help] [-m, --mode *Cmpds* | *Files*] [-n, --numfiles *number*] [--numcmpds *number*] [-o, --overwrite] [-r, --root *rootname*] [-w, --workingdir *dirname*] SDFfile(s)...

DESCRIPTION

Split *SDFfile(s)* into multiple SD files. Each new SDFfile contains a compound subset of similar size from the initial file. Multiple *SDFfile(s)* names are separated by space. The valid file extensions are *.sdf* and *.sd*. All other file names are ignored. All the SD files in a current directory can be specified either by **.sdf* or the current directory name.

OPTIONS

-c, --CmpdsMode *DataField* | *MolName* | *RootPrefix*

This option is only used during *Cmpds* value of <-m, --mode> option with specified --numcmpds value of 1.

Specify how to generate new file names during *Cmpds* value of <-m, --mode> option: use *SDFfile(s)* datafield value or molname line for a specific compound; generate a sequential ID using root prefix specified by -r, --root option.

Possible values: *DataField* | *MolName* | *RootPrefix* | *RootPrefix*. Default: *RootPrefix*.

For empty *MolName* and *DataField* values during these specified modes, file name is automatically generated using *RootPrefix*.

For *RootPrefix* value of -c, --CmpdsMode option, new file names are generated using by appending compound record number to value of -r, --root option. For example: *RootNameCmd*<RecordNumber>.sdf.

Allowed characters in file names are: a-zA-Z0-9_. All other characters in datafield values, molname line, and root prefix are ignore during generation of file names.

-d, --DataField *DataFieldName*

This option is only used during *DataField* value of <-c, --CmpdsMode> option.

Specify *SDFfile(s)* datafield label name whose value is used for generation of new file for a specific compound. Default value: *None*.

-h, --help

Print this help message.

-m, --mode *Cmpds* | *Files*

Specify how to split *SDFfile(s)*: split into files with each file containing specified number of compounds or split into a specified number of files.

Possible values: *Cmpds* | *Files*. Default: *Files*.

For *Cmpds* value of -m, --mode option, value of --numcmpds option determines the number of new files. And value of -n, --numfiles option is used to figure out the number of new files for *Files* value of -m, --mode option.

-n, --numfiles *number*

Number of new files to generate for each *SDFfile(s)*. Default: 2.

This value is only used during *Files* value of -m, --mode option.

--numcmpds *number*

Number of compounds in each new file corresponding to each *SDFfile(s)*. Default: 1.

This value is only used during *Cmpds* value of -m, --mode option.

-o, --overwrite

Overwrite existing files.

-r, --root *rootname*

New SD file names are generated using the root: <Root>Part<Count>.sdf. Default new file names: <InitialSDFfileName>Part<Count>.sdf. This option is ignored for multiple input files.

-w, --workingdir *dirname*

Location of working directory. Default: current directory.

EXAMPLES

To split each SD file into 5 new SD files, type:

```
% SplitSDFfiles.pl -n 5 -o Sample1.sdf Sample2.sdf
% SplitSDFfiles.pl -n 5 -o *.sdf
```

To split Sample1.sdf into 10 new NewSample*.sdf files, type:

```
% SplitSDFfiles.pl -m Files -n 10 -r NewSample -o Sample1.sdf
```

To split Sample1.sdf into new NewSample*.sdf files containing maximum of 5 compounds in each file, type:

```
% SplitSDFfiles.pl -m Cmpds --numcmpds 5 -r NewSample -o Sample1.sdf
```

To split Sample1.sdf into new SD files containing one compound each with new file names corresponding to molname line, type:

```
% SplitSDFfiles.pl -m Cmpds --numcmpds 1 -c MolName -o Sample1.sdf
```

To split Sample1.sdf into new SD files containing one compound each with new file names corresponding to value of datafield MolID, type:

```
% SplitSDFfiles.pl -m Cmpds --numcmpds 1 -c DataField -d MolID  
-o Sample1.sdf
```

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SEE ALSO

InfoSDFfiles.pl, JoinSDFfiles.pl, MolFilesToSD.pl, SDToMolFiles.pl

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