NAME

FilterSDFiles.pl - Filter compounds from SDFile(s)

SYNOPSIS

FilterSDFiles.pl SDFile(s)...

FilterSDFiles.pl [-a, --all] [-e, --empty] [-c, --cleansalts] [-h, --help] [-k, --keep] [-m, --mismatch] [-o, --overwrite] [-r, --root *rootname*] [-s, --salts] [-u, --unknownatoms] [-w, --workingdir *dirname*] SDFile(s)...

DESCRIPTION

Filter specific compounds from *SDFile(s)*. Available choices are: wash or remove compounds with salts; take out compounds with no structural data; remove compounds with mismatched atom/bond blocks data; remove compounds which contain uknown atoms and so on. Multiple SDFile names are separated by spaces. 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

-a, --all

Use all options to filter compounds.

-e, --empty

Filter compounds with empty atom/bond blocks. This is default behavior.

-c, --cleansalts

Wash compounds which contain salts identified as disconnected structural units. The largest fragment is kept.

-h, --help

Print this help message.

-k, --keep

Keep the compounds which were filtered in a separate file. Default: Just ignore these compounds. Option -r --root is used to generate the new file name: <Root>Ignored.sdf. Default file name: <SDFileName>Ignored.sdf.

-m. --mismatch

Remove compounds with mismatched atom/bond blocks and counts line information specified by header block.

-o, --overwrite

Overwrite existing files.

-r, --root rootname

New SD file name is generated using the root: <Root>.sdf. Default file name:<SDFileName>Filtered.sdf. This option is ignored for multiple input files.

-s, --salts

Remove compounds which contain salts identified as disconnected structural units.

-u, --unknownatoms

Remove compounds with atom blocks containing special atom symbols such as L, Q, * ,LP, X, R#, or any other non periodic table symbols.

-w, --workingdir dirname

Location of working directory. Default: current directory.

EXAMPLES

To remove compounds from SD files which contain salts, unknown atoms, or mismatched atom/bonds block data or no structural data, type:

```
% FilterSDFiles.pl -a -o Sample.sdf
% FilterSDFiles.pl -a -o *.sdf
```

And to generate a new NewSampleIgnored.sdf file for filtered compounds, type:

```
% FilterSDFiles.pl -a -k -r NewSample -o Sample.sdf
```

To wash compounds in order to get rid of all disconnected fragments except for the largest one, type:

```
% FilterSDFiles.pl -c -o Sample.sdf
```

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SEE ALSO

ExtractFromSDFiles.pl, InfoSDFiles.pl, MergeTextFilesWithSD.pl

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