

Package ‘ChemmineOB’

April 22, 2016

Type Package

Title R interface to a subset of OpenBabel functionalities

Version 1.8.2

Date 2016-01-03

Author Kevin Horan, Thomas Girke

Maintainer Thomas Girke <thomas.girke@ucr.edu>

Suggests ChemmineR, BiocStyle, knitr, knitcitations, knitrBootstrap

Imports BiocGenerics, zlibbioc, Rcpp (>= 0.11.0)

Description ChemmineOB provides an R interface to a subset of cheminformatics functionalities implemented by the OpelBabel C++ project. OpenBabel is an open source cheminformatics toolbox that includes utilities for structure format interconversions, descriptor calculations, compound similarity searching and more. ChemineOB aims to make a subset of these utilities available from within R. For non-developers, ChemineOB is primarily intended to be used from ChemmineR as an add-on package rather than used directly.

License file LICENSE

Depends R (>= 2.15.1), methods

SystemRequirements OpenBabel (>= 2.3.1) with headers
(<http://openbabel.org>).

Enhances ChemmineR (>= 2.13.0)

URL <https://github.com/girke-lab/ChemmineOB>

biocViews Cheminformatics, BiomedicalInformatics, Pharmacogenetics,
Pharmacogenomics, MicrotitrePlateAssay, CellBasedAssays,
Visualization, Infrastructure, DataImport, Clustering,
Proteomics

VignetteBuilder knitr

LinkingTo BH, Rcpp

NeedsCompilation yes

R topics documented:

canonicalNumbering_OB	2
convertFormat	3
convertFormatFile	4
exactMass_OB	5
fingerprint_OB	6
forEachMol	7
OB-classes	8
prop_OB	8
smartsSearch_OB	9

Index	10
--------------	-----------

canonicalNumbering_OB *Canonical Numbering OB*

Description

Computes a re-arrangement required to transform the atom numbering of the given compound into the canonical atom numbering. This function uses the OBGraphSym and CanonicalLabels classes of Open Babel to compute the re-arrangement.

Usage

```
canonicalNumbering_OB(obmolRefs)
```

Arguments

obmolRefs A list of OBMol references (of class `'_p_OpenBabel__OBMol'`) representing the compounds.

Value

A list of vectors of index values. Each item in the list corresponds to one of the given compounds. The values of a list item are the re-arrangement of the atoms. For example, if the value in item 1, column 1 is 25, that means that atom number 1 in the original compound should become atom number 25 in the canonical version of that compound.

Author(s)

Kevin Horan

References

http://openbabel.org/api/2.3/canonical_code_algorithm.shtml

See Also

[convertFormat](#) to return a new compound in the canonical format.

Examples

```
library(ChemmineR)
data(sdfsamplle)
labels = canonicalNumbering_OB(obmol(sdfsamplle[[1]]))
```

 convertFormat

Convert Formats

Description

Converts compound data from one format to another.

Usage

```
convertFormat(from, to, source, options=data.frame(names="gen2D", args=""))
```

Arguments

from	The format that source is in. This should be a string supported by OpenBabel.
to	The format to convert source to.
source	The initial compound format, as a string. The format of the string should be identical to the file format of the same name. Tabs and newlines may be represented with \t and \n, respectively.
options	<p>This is a data frame listing OpenBabel Options that should be applied while converting each compound. The "names" column should be the name of each option and the "args" column should be the arguments to the corresponding option. For example, the default value shown above will cause 2D coordinates to be generated from the input compound and saved in the output compound, assuming the output format supports it.</p> <p>A full list of available options can be found by executing "obabel -L ops" at the command line. The current list is:</p> <p>Oxout <file.xxx> Additional file output AddInIndex Append input index to title AddPolarH Adds hydrogen to polar atoms only canonical Canonicalize the atom order energy ForceField Energy Evaluation (not displayed in GUI) fillUC <param> Fill the unit cell (strict or keepconnect) gen2D Generate 2D coordinates gen3D Generate 3D coordinates minimize ForceField Energy Minimization (not displayed in GUI) partialcharge <method> Calculate partial charges by specified method readconformer Adjacent conformers combined into a single molecule s Isomorphism filter(-s, -v options replacement)(not displayed in GUI) sort <desc> Sort by descriptor(~desc for reverse) unique [param] remove duplicates by descriptor;default inchi v Isomorphism filter(-s, -v options replacement)(not displayed in GUI)</p>

Value

Returns the compound given in source in the format specified by to.

Author(s)

Kevin Horan

References

OpenBabel <http://openbabel.org>

See Also

[convertFormatFile](#)

Examples

```
#create an SDF from a SMILES string and put the atoms in the canonical order
sdfStr = convertFormat("SMI", "SDF", "CC(=O)OC1=CC=CC=C1C(=O)O\ttest_name",
                      options=data.frame(names="canonical", args=""))
```

convertFormatFile *Convert Format of Files*

Description

Convert a file from one format to another

Usage

```
convertFormatFile(from, to, fromFile, toFile, options=data.frame(names="gen2D", args=""))
```

Arguments

from	The format that fromFile is in. This should be a string supported by OpenBabel.
to	The format to convert toFile to.
fromFile	The name of the file to be converted
toFile	The name of the new file to be created or overwritten
options	This is a data frame listing OpenBabel Options that should be applied while converting each compound. The "names" column should be the name of each option and the "args" column should be the arguments to the corresponding option. For example, the default value shown above will cause 2D coordinates to be generated from the input compound and saved in the output compound, assuming the output format supports it. A full list of available options can be found by executing "obabel -L ops" at the command line. The current list is:

0xout <file.xxx> Additional file output AddInIndex Append input index to title AddPolarH Adds hydrogen to polar atoms only canonical Canonicalize the atom order energy ForceField Energy Evaluation (not displayed in GUI) fillUC <param> Fill the unit cell (strict or keepconnect) gen2D Generate 2D coordinates gen3D Generate 3D coordinates minimize ForceField Energy Minimization (not displayed in GUI) partialcharge <method> Calculate partial charges by specified method readconformer Adjacent conformers combined into a single molecule s Isomorphism filter(-s, -v options replacement)(not displayed in GUI) sort <desc> Sort by descriptor(~desc for reverse) unique [param] remove duplicates by descriptor;default inchi v Isomorphism filter(-s, -v options replacement)(not displayed in GUI)

Value

No value is returned. toFile will be created with the compound in the new format.

Author(s)

Kevin Horan

References

OpenBabel <http://openbabel.org>

See Also

[convertFormat](#)

Examples

```
## Not run:  
convertFormatFile("SMI", "SDF", "test.smiles", "test.sdf")  
  
## End(Not run)
```

exactMass_OB

Exact Mass (Monoisotopic Mass)

Description

Computes the exact mass of each compound given.

Usage

```
exactMass_OB(obmolRefs)
```

Arguments

obmolRefs A list of OBMol references (of class '_p_OpenBabel__OBMol') representing the compounds.

Value

A vector of mass values.

Author(s)

Kevin Horan

Examples

```
molRefs = forEachMol("SMILES", "C1CCCC1\ttest-compound-name", identity)
exactMass_OB(molRefs)
```

fingerprint_OB *Fingerprints from OpenBabel*

Description

Generates fingerprints using OpenBabel. The compound format can be specified as anything supported by OpenBabel. The fingerprint name can also be specified.

Usage

```
fingerprint_OB(obmolRefs, fingerprintName)
```

Arguments

obmolRefs A list of OBMol references (of class '_p_OpenBabel__OBMol') representing the molecules to compute properites for. If you have your molecules in string format, you can create a list of OBMol references using the forEachMol function, see the example.

fingerprintName The name of the fingerprint to generate. A list of available names can be found with "obabel -L fingerprints". Currently that list is: "FP2", "FP3", "FP4", and "MACCS".

Value

A matrix of binary values is returned. There is a row for each compound. The length of a row is determined by the fingerprint specified.

Author(s)

Kevin Horan

Examples

```
molRefs = forEachMol("SMILES", "C1CCCC1\ttest-compound-name", identity)
fingerprint_OB(molRefs, "FP3")
```

forEachMol

For Each Mol

Description

Reads in molecules from the given string in the given format and calls function *f* on each molecule. The results are then combined using the reduce function, if given.

Usage

```
forEachMol(inFormat, inString, f, reduce)
```

Arguments

<code>inFormat</code>	Format of string in source. This can be any OpenBabel format such as "SDF" or "SMILES". A full list can be found by executing "obabel -L formats".
<code>inString</code>	The compounds to generate fingerprints for. The format should be exactly what would be in a file of the same format. Newlines can be represented with "\n".
<code>f</code>	A function taking one OBMol reference and possibly returning a result.
<code>reduce</code>	This function will be passed to the Reduce function along with the results of all the <i>f</i> calls. This can be used to combine the results.

Value

The result will be a List of return values from the *f* function if not reduce function was given. Otherwise it will be the result of the reduce function applied to the results of the *f* function.

Author(s)

Kevin Horan

Examples

```
molRefs = forEachMol("SMILES", "C1CCCC1\ttest-compound-name",
                    identity, c)
```

OB-classes

Classes from OB

Description

These are methods generated by SWIG for R. These should not generally be used outside of ChemmineOB, they are listed here to quite some warnings.

prop_OB

Properties from OpenBabel

Description

Generates the following descriptors: "cansmi", "cansmiNS", "formula", "HBA1", "HBA2", "HBD", "InChI", "InChIKey", "logP", "MR", "MW", "nF", "s", "smarts", "title", "TPSA".

Usage

```
prop_OB(obmolRefs)
```

Arguments

obmolRefs A list of OBMol references (of class `'_p_OpenBabel__OBMol'`) representing the molecules to compute properites for. If you have your molecules in string format, you can create a list of OBMol references using the `forEachMol` function, see the example.

Value

Returns a data frame with the following OpenBabel descriptors: "cansmi", "cansmiNS", "formula", "HBA1", "HBA2", "HBD", "InChI", "InChIKey", "logP", "MR", "MW", "nF", "s", "smarts", "title", "TPSA".

Author(s)

Kevin Horan

Examples

```
molRefs = forEachMol("SMILES", "C1CCCCC1\ttest-compound-name", identity)
prop_OB(molRefs)
```

smartsSearch_OB	<i>SMARTS Search</i>
-----------------	----------------------

Description

Returns the number of matches found for each compound given.

Usage

```
smartsSearch_OB(obmolRefs, smartsPattern, uniqueMatches = TRUE)
```

Arguments

obmolRefs	A list of OBMol references (of class '_p_OpenBabel__OBMol') representing the molecules to compute properites for. If you have your molecules in string format, you can create a list of OBMol references using the forEachMol function, see the example.
smartsPattern	Any valid SMARTS pattern.
uniqueMatches	Should only unique matches be counted?

Value

A vector of counts.

Author(s)

Kevin Horan

Examples

```
molRefs = forEachMol("SMILES", "C1CCCC1\ttest-compound-name", identity)
smartsSearch_OB(molRefs, "[CH3X4]")
```

Index

*Topic **canonical**
canonicalNumbering_OB, 2

*Topic **exact**
exactMass_OB, 5

*Topic **mass**
exactMass_OB, 5

*Topic **monoisotopic**
exactMass_OB, 5

*Topic **morgan**
canonicalNumbering_OB, 2

[, ExternalReference-method
(OB-classes), 8

[<-, ExternalReference-method
(OB-classes), 8

[[<-, _p_OpenBabel__DoubleType, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__FptIndexHeader, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBAtom, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBAtomAtomIter, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBAtomBondIter, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBBond, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBFFCalculation2, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBFFCalculation3, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBFFCalculation4, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBFFConstraint, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBFFParameter, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBInternalCoord, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBMolAtomBFSIter, character-method
(OB-classes), 8

(OB-classes), 8

[[<-, _p_OpenBabel__OBMolAtomDFSIter, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBMolAtomIter, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBMolBondBFSIter, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBMolBondIter, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBMolRingIter, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBResidueAtomIter, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBRing, character-method
(OB-classes), 8

[[<-, _p_OpenBabel__OBUnitCell, character-method
(OB-classes), 8

[[<-, _p_std__pairT_unsigned_int_unsigned_int_t, character-method
(OB-classes), 8

\$_, _p_OpenBabel__AliasData-method
(OB-classes), 8

\$_, _p_OpenBabel__DoubleType-method
(OB-classes), 8

\$_, _p_OpenBabel__FastSearch-method
(OB-classes), 8

\$_, _p_OpenBabel__FastSearchIndexer-method
(OB-classes), 8

\$_, _p_OpenBabel__FptIndexHeader-method
(OB-classes), 8

\$_, _p_OpenBabel__OBAngle-method
(OB-classes), 8

\$_, _p_OpenBabel__OBAngleData-method
(OB-classes), 8

\$_, _p_OpenBabel__OBARomaticTyper-method
(OB-classes), 8

\$_, _p_OpenBabel__OBAtom-method
(OB-classes), 8

\$_, _p_OpenBabel__OBAtomAtomIter-method
(OB-classes), 8

- `$_p_OpenBabel__OBAtomBondIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBAtomClassData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBAtomTyper`-method
(OB-classes), 8
- `$_p_OpenBabel__OBBase`-method
(OB-classes), 8
- `$_p_OpenBabel__OBBitVec`-method
(OB-classes), 8
- `$_p_OpenBabel__OBBond`-method
(OB-classes), 8
- `$_p_OpenBabel__OBBuilder`-method
(OB-classes), 8
- `$_p_OpenBabel__OBChainsParser`-method
(OB-classes), 8
- `$_p_OpenBabel__OBChiralData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBCommentData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBConformerData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBConversion`-method
(OB-classes), 8
- `$_p_OpenBabel__OBDOSData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBDescriptor`-method
(OB-classes), 8
- `$_p_OpenBabel__OBElectronicTransitionData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBElement`-method
(OB-classes), 8
- `$_p_OpenBabel__OBElementTable`-method
(OB-classes), 8
- `$_p_OpenBabel__OBError`-method
(OB-classes), 8
- `$_p_OpenBabel__OBExternalBond`-method
(OB-classes), 8
- `$_p_OpenBabel__OBExternalBondData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBFFCalculation2`-method
(OB-classes), 8
- `$_p_OpenBabel__OBFFCalculation3`-method
(OB-classes), 8
- `$_p_OpenBabel__OBFFCalculation4`-method
(OB-classes), 8
- `$_p_OpenBabel__OBFFConstraint`-method
(OB-classes), 8
- `$_p_OpenBabel__OBFFConstraints`-method
(OB-classes), 8
- `$_p_OpenBabel__OBFFParameter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBFingerprint`-method
(OB-classes), 8
- `$_p_OpenBabel__OBForceField`-method
(OB-classes), 8
- `$_p_OpenBabel__OBFormat`-method
(OB-classes), 8
- `$_p_OpenBabel__OBGenericData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBGlobalDataBase`-method
(OB-classes), 8
- `$_p_OpenBabel__OBGridData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBInternalCoord`-method
(OB-classes), 8
- `$_p_OpenBabel__OBIsotopeTable`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMatrixData`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMessageHandler`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMol`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMolAngleIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMolAtomBFSIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMolAtomDFSIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMolAtomIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMolBondBFSIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMolBondIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMolPairIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMolRingIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBMolTorsionIter`-method
(OB-classes), 8
- `$_p_OpenBabel__OBOp`-method
(OB-classes), 8
- `$_p_OpenBabel__OBOrbital`-method
(OB-classes), 8

- `$_p_OpenBabel__OBOrbitalData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBPairData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBPlugin-method`
(OB-classes), 8
- `$_p_OpenBabel__OBRTree-method`
(OB-classes), 8
- `$_p_OpenBabel__OBRandom-method`
(OB-classes), 8
- `$_p_OpenBabel__OBResidue-method`
(OB-classes), 8
- `$_p_OpenBabel__OBResidueAtomIter-method`
(OB-classes), 8
- `$_p_OpenBabel__OBResidueData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBResidueIter-method`
(OB-classes), 8
- `$_p_OpenBabel__OBRing-method`
(OB-classes), 8
- `$_p_OpenBabel__OBRingData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBRingSearch-method`
(OB-classes), 8
- `$_p_OpenBabel__OBRingTyper-method`
(OB-classes), 8
- `$_p_OpenBabel__OBRotationData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBSSMatch-method`
(OB-classes), 8
- `$_p_OpenBabel__OBSerialNums-method`
(OB-classes), 8
- `$_p_OpenBabel__OBSetData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBSmartsMatcher-method`
(OB-classes), 8
- `$_p_OpenBabel__OBSmartsPattern-method`
(OB-classes), 8
- `$_p_OpenBabel__OB.SqrtTbl-method`
(OB-classes), 8
- `$_p_OpenBabel__OBStopwatch-method`
(OB-classes), 8
- `$_p_OpenBabel__OBSymmetryData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBTorsion-method`
(OB-classes), 8
- `$_p_OpenBabel__OBTorsionData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBTypeTable-method`
(OB-classes), 8
- `$_p_OpenBabel__OBUnitCell-method`
(OB-classes), 8
- `$_p_OpenBabel__OBVectorData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBVibrationData-method`
(OB-classes), 8
- `$_p_OpenBabel__OBVirtualBond-method`
(OB-classes), 8
- `$_p_OpenBabel__SpaceGroup-method`
(OB-classes), 8
- `$_p_OpenBabel__matrix3x3-method`
(OB-classes), 8
- `$_p_OpenBabel__transform3d-method`
(OB-classes), 8
- `$_p_OpenBabel__vector3-method`
(OB-classes), 8
- `$_p_std__pairT_unsigned_int_unsigned_int_t-method`
(OB-classes), 8
- `$_p_std__vectorT_OpenBabel__OBBond_std__allocatorT_OpenBa`
(OB-classes), 8
- `$_p_std__vectorT_OpenBabel__OBGenericData_p_std__allocato`
(OB-classes), 8
- `$_p_std__vectorT_OpenBabel__OBInternalCoord_p_std__alloca`
(OB-classes), 8
- `$_p_std__vectorT_OpenBabel__OBMol_std__allocatorT_OpenBab`
(OB-classes), 8
- `$_p_std__vectorT_OpenBabel__OBResidue_std__allocatorT_Ope`
(OB-classes), 8
- `$_p_std__vectorT_OpenBabel__OBRing_p_std__allocatorT_Open`
(OB-classes), 8
- `$_p_std__vectorT_OpenBabel__OBRing_std__allocatorT_OpenBa`
(OB-classes), 8
- `$_p_std__vectorT_OpenBabel__vector3_std__allocatorT_OpenB`
(OB-classes), 8
- `$_p_std__vectorT_double_std__allocatorT_double_t_t-method`
(OB-classes), 8
- `$_p_std__vectorT_int_std__allocatorT_int_t_t-method`
(OB-classes), 8
- `$_p_std__vectorT_std__pairT_unsigned_int_unsigned_int_t_s`
(OB-classes), 8
- `$_p_std__vectorT_std__string_std__allocatorT_std__string_`
(OB-classes), 8
- `$_p_std__vectorT_std__vectorT_OpenBabel__vector3_std__all`
(OB-classes), 8
- `$_p_std__vectorT_std__vectorT_int_std__allocatorT_int_t_t`
(OB-classes), 8

`$_p_std__vectorT_std__vectorT_std__pairT_unsigned_int_t_std__allocatorT_std__pairT_unsigned_int_t` (OB-classes), 8
`$_p_std__vectorT_unsigned_int_std__allocatorT_unsigned_int_t` (OB-classes), 8
`$_p_stringp`-method (OB-classes), 8
`$<-,_p_OpenBabel__DoubleType`-method (OB-classes), 8
`$<-,_p_OpenBabel__FptIndexHeader`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBAtom`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBAtomAtomIter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBAtomBondIter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBBond`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBFFCalculation2`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBFFCalculation3`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBFFCalculation4`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBFFConstraint`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBFFParameter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBInternalCoord`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBMolAtomBFSIter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBMolAtomDFSIter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBMolAtomIter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBMolBondBFSIter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBMolBondIter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBMolRingIter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBResidueAtomIter`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBRing`-method (OB-classes), 8
`$<-,_p_OpenBabel__OBUnitCell`-method (OB-classes), 8
`$<-,_p_std__pairT_unsigned_int_unsigned_int_t`-method (OB-classes), 8
`canonicalNumbering` OB, 2
`convertFormat`, 3, 3, 5
`convertFormatFile`, 4, 4
`exactMass`_OB, 5
`fingerprint`_OB, 6
`forEachMol`, 7
`length`, SWIGArray-method (OB-classes), 8
OB-classes, 8
`prop`_OB, 8
`smartsSearch`_OB, 9