

chem-bla-ics

Cb comments for InChI's

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Keywords

Cb, Inchi, Userscript, Rdf

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About a year ago [Pedro wrote a Greasemonkey script](#) to add comments from [PostGenomic.com](#) to table of contents of scientific journals. [Noel extended](#) it with support for [Chemical blogspace](#) (see also [this earlier item](#)). Now, the later website is maintained by me, and I [extended the aggregator software with molecule support](#), for example to show *hot molecules on the frontpage* (at some point [my patches will be backported into mainstream](#). Euan, why not invite me to London HQ in, say, June?).

So, when we can show comments from blogosphere for journal articles, why can't we do that for molecules too? Sure we can. Just needs some hacking. Right, and done that today. The scripts works for [PubChem](#):



Descriptors Computed from Structure: ⓘ

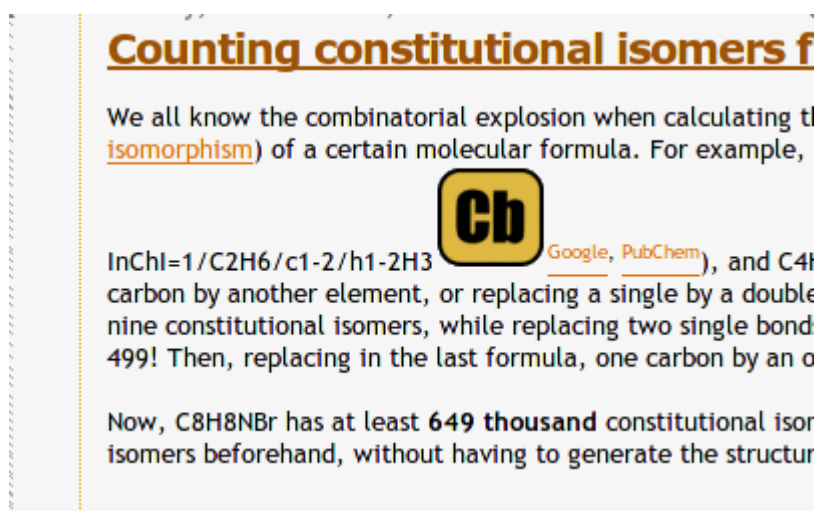
IUPAC Name: 4-(4-methylsulfonylphenyl)-3-phenyl-5H-furan-2-c
Canonical SMILES: CS(=O)(=O)C1=CC=C(C=C1)C2=C(C(=O)O
InChI: InChI=1/C17H14O4S/c1-22(19,20)14-9-7-12(8-10-14)15

Cb ⓘ

5-3-2-4-6-13/h2-10H,11H2,1H3

Works for any `<a href>` element with an URL to PubChem like [http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&DB=pccompound&term=%22InChI=1/CH4/h1H4%22\[InChI\]](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&DB=pccompound&term=%22InChI=1/CH4/h1H4%22[InChI]). BTW, while the URL is not very readable, this might actually be a good way to [hide InChIs](#), though I am sure Google will not index this InChI either.

And it also works for [semantically marked up InChI's \(using either microformats or RDFa\)](#) :



Counting constitutional isomers f

We all know the combinatorial explosion when calculating the [isomorphism](#) of a certain molecular formula. For example,

Cb [Google](#), [PubChem](#)), and C4t carbon by another element, or replacing a single by a double nine constitutional isomers, while replacing two single bond 499! Then, replacing in the last formula, one carbon by an o

Now, C8H8NBr has at least **649 thousand** constitutional isomers beforehand, without having to generate the structur

You'll notice here that it is friendly with my [Sechemtic script to make links to Google and PubChem](#) .

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The tools to make this happen involves a new Greasemonkey script (based on Noels code), and a few patches to the Postgenomic.com software. The user script can be downloaded [here](#). An entry on the [Blue Obelisk userscript page](#) will follow; check that page for more goodies.