

# Molecular indexing on the KDE and OS/X desktops

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## Keywords

Kde, Cheminf, Inchi

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## chem-bla-ics

Geoff Hutchinson blogged about his [OS/X ChemSpotLight](#), an indexing tool for chemistry documents. It's like, but more advanced than, the [kfile\\_chemical](#) and [Kat](#) I have been working on (with others) for the [KDE](#) desktop (see earlier blog items).

ChemSpotLight currently does more than the KDE tools: it adds Spotlight comments. I assume these are like the Linux [extended attributes](#), used for example by [Beagle](#). For example, a file indexed by Beagle will have extended attributes like:

```
# file: home/egonw/m43.jpg
user.Beagle.AttrTime="20060509071950"
user.Beagle.Filter="003 Beagle.Filters.FilterJpeg"
user.Beagle.Fingerprint="02 xHn5Yi58x0eoI8ityBYkUw"
user.Beagle.MTime="20031225151016"
user.Beagle.Uid="YcIW72RWyk+K5FbGnpv4iA"
```

This is very suitable for adding metadata, like comments as in ChemSpotLight. Geoff's program adds metadata like number of atoms and bond, but it calculates the [SMILES](#) and [InChI](#) on the fly too. Especially the last is very good for indexing purposes, as it is a really unique identifier for molecular structures, and even works for [proteins](#) .

Now, [kfile\\_chemical](#) is a kfile plugin. These kfile plugins only extract metadata from files, and have little to do with calculated metadata. [Kat](#), on the other hand, is an indexing application and might be expected to add additional, derived or calculated, metadata as extended attributes, just like Beagle does. And then [InChI](#) and [SMILES](#) are good candidates.