All,

I was surprised that datawarrior's clogP calculator treats a deuterated molecule differently than a protium analog.

A simple example of benzene vs. hexadeuterobenzene:

Total Molweight: 78.11 vs. 84.15 (which is correct) clogP: 1.66 vs. 0 (which is weird) clogS: -1.616 vs. -0.53 (which I guess comes from the clogP) Total Surface Area: 73.26 vs. 32.76 (I agree D is effectively smaller than H but I'm surprised by the magnitude) Relative PSA 0 vs. 0 (which is correct, although with polar molecules this number differs between the two...which likely comes from the Total Surface Area)

Looking at other methods of calculating logP I see that they ignore the D vs. H and produce identical results. I would fix this myself but I figured this is significant an issue to raise with the community.

Lastly, thanks to everyone involved in the development and support of DW: it's an outstanding piece of work.

Best, Andy

Subject: Re: Deuterium in property calculations Posted by thomas on Sun, 14 Apr 2019 19:40:59 GMT View Forum Message <> Reply to Message

Dear Andy,

thank you for reporting. We will fix the problem,

Thomas