
Subject: TPSA

Posted by [sansun](#) on Mon, 03 Aug 2020 11:13:30 GMT

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I found disagreement between TPSA values calculated from DW and RDKit although both seem to follow same methodology by Peter Ertl et al. in J. Med. Chem. 43, 3714-3717 (2000).

In some case the difference is quite large e.g. 87 vs 252

However, Spearman correlation is > 0.9 for my data set ($N > 20000$).

Subject: Re: TPSA

Posted by [thomas](#) on Tue, 04 Aug 2020 09:24:55 GMT

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One reason may be that DataWarrior considers the largest fragment only by removing counter ions, water molecules and other small fragments from the main ingredient before the calculation.

Subject: Re: TPSA

Posted by [sansun](#) on Tue, 04 Aug 2020 10:20:26 GMT

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I performed calculations after extracting the largest fragments and used the same file for both programs.

However, I find useful information on the following link which says RDkit doesn't use P and S atoms for TPSA calculation.

Does DW uses these atoms?

https://www.rdkit.org/docs/RDKit_Book.html

Subject: Re: TPSA

Posted by [thomas](#) on Mon, 17 Aug 2020 12:01:05 GMT

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DataWarrior sticks to the original publication, which includes contributions for S and P
