Correction to: First-Principles Calculation of the Air–Water Second Virial Coefficient

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In the original article [1], an incorrect expression was written for the calculation of the expanded uncertainty of B_{aw} , $U(B_{aw})$, from the uncertainties of the individual components. Equation (4) should be written as.

$$U(B_{aw}) = \left(\sum_{i=N_2, O_2, Ar} [x_i U(B_{iw})]^2 \right)^{0.5}. \quad (4)$$

The uncertainty values reported in the paper were calculated with the correct expression.

We thank Robert Hellmann for noticing this error during the course of his work on Ref.[2], which to a large extent supersedes Ref.[1].

References

1. A.H. Harvey, P.H. Huang, First-principles calculation of the air-water second virial coefficient. *Int. J. Thermophys.* **28**, 556 (2007). <https://doi.org/10.1007/s10765-007-0197-8>
2. R. Hellmann, Reference values for the cross second virial coefficients and dilute gas binary diffusion coefficients of the systems ($H_2O + O_2$) and ($H_2O + Air$) from first principles. *J. Chem. Eng. Data* **65**, 4130 (2020). <https://doi.org/10.1021/acs.jced.0c00465>

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