Erratum to: Thermal Diffusivity of H₂O Near the Critical Point

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The following is a correction to the paper titled “Thermal Diffusivity of H₂O near the Critical Point” by J. V. Sengers, R. A. Perkins, M. L. Huber, and B. Le Neindre that appeared in Int. J. Thermophys. **30**: 1453 (2009).

The information for R_D in Table 1 yielding $R_D = 1.05 \pm 0.05$ was obtained by using the IAPWS Formulation 1985 for the Thermal Conductivity [49] for estimating the background thermal conductivity of H₂O and not the estimate proposed by Le Neindre et al. [58] as was stated in the paper. If we do use the estimate proposed by Le Neindre et al. [58] for the background thermal conductivity, we find $R_D = 1.01 \pm 0.05$.

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Table 1 Thermal diffusivity $D(q)$ measured at $q = 1.549 \times 10^7 \text{m}^{-1}$ by Desmarest et al. [56] and the corresponding $D(q = 0)$ and R_D as a function of $\Delta T = T - T_c$ and $q\xi$

ΔT (K)	$q\xi$	$D(q)(\text{m}^2 \cdot \text{s}^{-1})$	$D(q = 0)(\text{m}^2 \cdot \text{s}^{-1})$	R_D	μ/μ_b
0.020	0.964	2.79×10^{-10}	1.84×10^{-10}	1.06	1.18
0.036	0.713	3.28×10^{-10}	2.52×10^{-10}	1.04	1.16
0.077	0.481	4.36×10^{-10}	3.80×10^{-10}	1.00	1.13
0.106	0.408	4.79×10^{-10}	4.33×10^{-10}	0.93	1.12
0.118	0.385	5.28×10^{-10}	4.82×10^{-10}	0.97	1.12
0.159	0.330	6.26×10^{-10}	5.84×10^{-10}	0.98	1.11
0.245	0.262	8.29×10^{-10}	7.93×10^{-10}	1.02	1.09
0.286	0.241	9.39×10^{-10}	9.04×10^{-10}	1.06	1.09
0.351	0.216	10.61×10^{-10}	10.28×10^{-10}	1.05	1.08
0.438	0.191	11.73×10^{-10}	11.44×10^{-10}	1.00	1.07
0.522	0.174	13.10×10^{-10}	12.83×10^{-10}	0.99	1.07
0.550	0.169	13.52×10^{-10}	13.26×10^{-10}	0.99	1.07
0.668	0.151	15.61×10^{-10}	15.36×10^{-10}	1.00	1.06
0.740	0.143	16.58×10^{-10}	16.34×10^{-10}	0.99	1.06
0.877	0.130	18.62×10^{-10}	18.40×10^{-10}	0.98	1.05