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*Supplement of*

## **Diffusivity measurements of volatile organics in levitated viscous aerosol particles**

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The Table below gives the retrieved data for PEG-4 diffusivity in ternary aqueous solutions of sucrose and PEG-4 as shown in Figs 7, 8 and A2 of the manuscript.

T [K]	mol-fraction sucrose	aw	D(PEG-4) [cm <sup>2</sup> s <sup>-1</sup> ]	uncertainty range (+) [cm <sup>2</sup> s <sup>-1</sup> ]	uncertainty range (-) [cm <sup>2</sup> s <sup>-1</sup> ]
292.65	0.481	0.26	3E-15	1.2E-15	8.6E-16
292.65	0.443	0.30	6.2E-14	2.5E-14	1.8E-14
292.65	0.418	0.34	2.45E-13	2E-13	7E-14
292.65	0.382	0.39	1.29E-12	5.1E-13	3.7E-13
292.65	0.342	0.44	8E-12	4.2E-11	3E-12
288.15	0.446	0.29	4E-15	1.1E-15	1.6E-15
288.15	0.413	0.33	3.8E-14	1.1E-14	1.5E-14
288.15	0.394	0.35	1.1E-13	3.1E-14	4.4E-14
288.15	0.376	0.38	3.5E-13	1E-13	1.4E-13
283.15	0.393	0.35	1E-14	2.9E-15	4E-15
283.15	0.362	0.39	1.2E-13	3.4E-14	8E-14
283.15	0.354	0.42	3.4E-13	1E-13	2E-13