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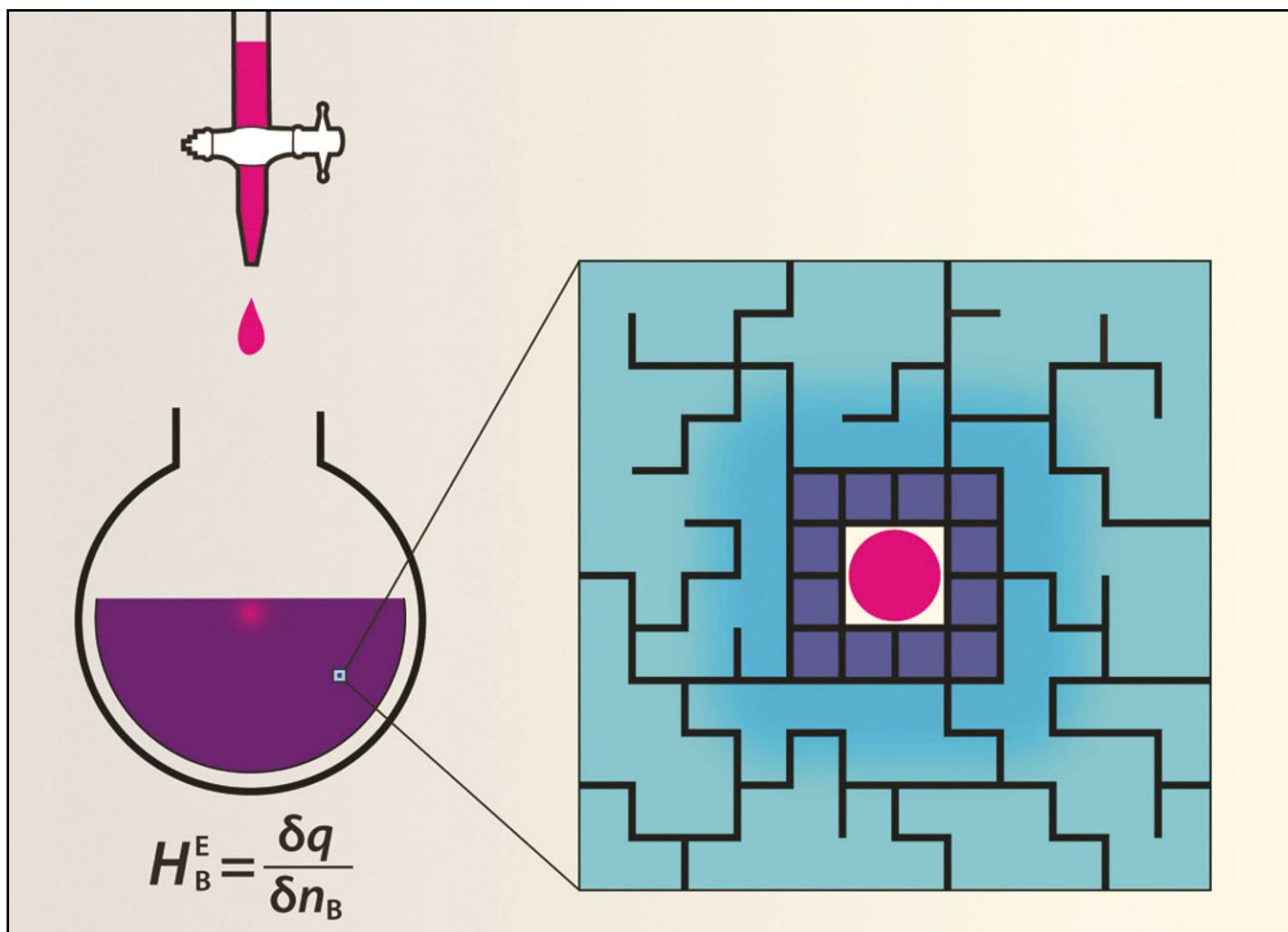
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**Unique approach from the group of Dr Yoshikata Koga at the University of British Columbia and Suitekijuku, Vancouver, Canada.**

**Title: 1-Propanol probing methodology: two-dimensional characterization of the effect of solute on H<sub>2</sub>O**

An approach is introduced in solution thermodynamics. Without resorting to any model or any fitting function, the second and third derivative quantities of the Gibbs energy are determined. By examining the dependences of these higher order derivatives, more detailed information about the molecular level scenario of solute–H<sub>2</sub>O interactions, mixing schemes, is elucidated. It was found that aqueous solutions show three distinctive concentration regions in each of which the mixing scheme is qualitatively different. Furthermore, the so-called “Koga Line” was discovered as the boundary between the two different mixing schemes.

**As featured in:**



See Koga,  
*Phys. Chem. Chem. Phys.*,  
2013, **15**, 14548.

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