

Interactive comment on “Molecular Dynamics Simulation of the Surface Tension of Aqueous Sodium Chloride: from Dilute to Highly Supersaturated Solutions and Molten Salt” by Xiaoxiang Wang et al.

Anonymous Referee #2

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In this paper, the authors use MD simulations to study the surface tension of NaCl aqueous solutions across all concentrations. The authors present results with an intriguing three regime behavior (water-dominated, transition, and molten salt dominated), which appears well supported by the method used. Overall, this is a good and interesting paper and I'd recommend for publication after the authors address a couple of points.

A couple of comments and suggestions:

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Can the authors comment further on other systems such as KCl, NH₄Cl, NaNO₃, and NH₄NO₃, at least qualitatively? What about mixed-salt systems? Are the same behaviors expected?

In the transition regime, is there any reason entropy is increasing as the mass fraction approaches the efflorescence point? $\hat{\Delta} \hat{a}$

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2017-1013>, 2017.

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