

Interactive comment on “Hygroscopicity of nanoparticles produced from homogeneous nucleation in the CLOUD experiments” by J. Kim et al.

Anonymous Referee #1

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This manuscript presents nano-HTDMA measurements of freshly nucleated particles in the presence of sulphuric acid, sulphuric acid-dimethylamine, and sulphuric acid-organics mixtures. This work is well presented, and the conclusions logical. I have only very minor comments:

Page 19814, line 11: “the observed increases in k values” – do the authors mean “decreases”?

Page 19815, line 3: Can the authors also confirm that this evaporation does not account for the difference in acidity between particle sizes?

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Page 19815, line 24: “at a constant paste” – do you mean “rate”?

Page 19816, line 10: Have the authors done any statistical significance testing to confirm this?

Finally, I believe the figures would be much clearer if they were in colour, particularly figure 2 making the points more distinguishable.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 19803, 2015.

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