

Interactive comment on “A combined particle trap/HTDMA hygroscopicity study of mixed inorganic/organic aerosol particles” by A. A. Zardini et al.

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P.5246, The authors attributed the difference in the pure GA data between Peng et al. and the current study to impurities. While it might be true, we would like to point out that the DRH in Peng et al. is also consistent with that of Cruz and Pandis. Our recent publication (Ling et al., JGR, 2008) has reported the polymorphic transformation of GA in GA/AS mixture prior to deliquescence. These observations may be relevant to the findings of the current study.

P.5247: On mass transfer effects of a coating, Chan and Chan (2007) may be of interest to the authors and the readers of the current paper. We used the Scanning EDB

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method to examine the effects of coatings of octanoic acid on the water uptake of AS. A clear delay in the deliquescence of AS particles heavily coated with octanoic acid was observed.

Chan M.N., and Chan C.K. (2007) "Mass Transfer Effects on the Hygroscopic Growth of Ammonium Sulfate Particles with a Water-Insoluble Coating", *Atmospheric Environment*, 41, 4423-4433.

Ling, T. Y., and C. K. Chan (2008), Partial crystallization and deliquescence of particles containing ammonium sulfate and dicarboxylic acids, *J. Geophys. Res.*, doi:10.1029/2008JD009779, in press (available via the ’Papers in press’ link at <http://www.agu.org/journals/jd/>).

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