

Interactive comment on “Hygroscopic properties of NaCl and NaNO₃ mixture particles as reacted inorganic sea-salt aerosol surrogates” by D. Gupta et al.

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* Response to the general comments by Anonymous Referee #2:

We thank the reviewer very much for his/her positive evaluation of our work and helpful suggestions.

* Response to minor comments by Anonymous Referee #2:

The accuracy of the RH measurements in the experimental set-up, i.e. $\pm 0.5\%$, was determined by repeated measurements of the DRH of pure NaCl particles. We use the average/mean and standard deviation for the DRH values and error values/bars from
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repeated humidifying cycles in text and for the deliquescence phase diagram in Figure 3, respectively. For the dehydration process we use the number average and range of ERH values in text and for the efflorescence phase diagram in Figure 4. Hence, we think that the decimal digit in RH representation is not meaningless: for example, we believe that two experimental values such as $76.4(\pm 0.5)\%$ and $75.5(\pm 0.5)\%$ are different in our experiments, which will be the same as $76(\pm 0.5)\%$ if they are rounded as suggested by the reviewer.

We will incorporate the minor/editorial changes in the revised manuscript as suggested by the reviewer.

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 33143, 2014.