

Response to ACP 2013-839 Referee #2 Comments

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The authors would like to thank Anonymous Referee #2 for the careful review. We have updated the manuscript to include the suggestions provided.

- *The authors might note that Sullivan et al. (2010a, 2010b) also reported similarly low kappa values for 200 and 300 nm dry-generated ATD particles of kappa = 0.004 and 0.002, respectively, adding further support for the reliability of using Kappa-Kohler model to treat the CCN activation of mineral particles presented here. These should be added to Figure 11.*

These data and references have been added to Figure 11.

- *The authors should also note that the importance of selecting a monodisperse aerosol from the correct region of a polydisperse aerosol for accurate hygroscopicity measurements from CCN activation curves was previously discussed in detail by Petters et al. (2007).*

The relevant text in the Methods section now reads, “As discussed in Petters et al., (2007b), DMA-selected monodisperse aerosol must come from the correct region of a polydisperse aerosol for accurate hygroscopicity measurements. To this effect, Fig. 4 illustrates how selecting particles from the lower tail of such a distribution yields only multiply charged particles, leading to a significant data artifact.”