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Interactive Comment

Interactive comment on "Extinction efficiencies of coated absorbing aerosols measured by cavity ring down aerosol spectrometry" by A. A. Riziq et al.

A. A. Riziq et al.

Received and published: 31 December 2007

Thank you very much for your constructive comment.

While GA has a rather high vapor pressure of 1.0 mm Hg between 47 deg C and 155.5 degree Celsius; 10 mm Hg at 196 degree Celsius (NTP, 1992) it is not high enough for such intense evaporation at 22-25 degrees Celsius which are the working conditions in this study. As can be seen from Riziq, A. A., Erlick, C., Dinar, E., and Rudich, Y. Atmos. Chem. Phys.,7, 1523–1536, 2007, the measurements performed with pure and mixed-state glutaric acid in this paper are in a very good agreement with the theory. This is especially true for the thin coatings, in which we obtain the best fit with the theoretical calculation. For DEHS at 20 degree Celsius the vapor pressure is lower



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than 0.007 mm Hg. We have observed a similar effect with both GA and DEHS so we believe that it is not the reason for the discrepancies. A sentence to this effect will be added to the text.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 18113, 2007.

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