

Interactive comment on “Hygroscopic growth and activation of HULIS particles: experimental data and a new iterative parameterization scheme for complex aerosol particles” by M. Ziese et al.

Anonymous Referee #2

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The manuscript shows laboratory results on activation and hygroscopic growth (up to 99.75% relative humidity) of aerosol particles made by HULIS and HULIS plus other species. These experimental data are further used to derive parameterizations for HULIS hygroscopicity and activation. The work is interesting and worth publication with some modifications. I suggest to the authors to discuss whether their parameterizations derived for HULIS is valid only for urban aerosol or in general. I also suggest to the authors to better explain in the Introduction why they use the Aerosol-Water-Extract in this study. In addition, the results will be better understood and explained by showing the chemical composition of the Aerosol-Water-Extract.

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