

Interactive comment on “Insights into the O : C dependent mechanisms controlling the evaporation of α -pinene secondary organic aerosol particles” by Angela Buchholz et al.

Anonymous Referee #1

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This manuscript describes results from experiments on isothermal evaporation of α -pinene SOA of different oxidation state and at different relative humidity. The authors observed reduced evaporation at higher oxidation state, consistent with an inverse relationship between organic aerosol volatility and oxidation state. They observed increased evaporation at higher relative humidity, potentially due to changes in particle viscosity and aqueous chemistry. The experiments are well designed, the data analysis is solid, and the results, implications and limitations are well described. In my opinion this manuscript can be published as is.

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-1305>,

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