

Interactive comment on “Homogeneous vs. heterogeneous nucleation in water-dicarboxylic acid systems” by A. I. Hienola et al.

Anonymous Referee #1

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This paper is a modeling exercise which demonstrates the effects of new parameterizations of saturation vapor pressure, density and surface tension for four dicarboxylic acids on aerosol nucleation using the classical heterogeneous nucleation theory.

The paper is well written and the results are relevant for further atmospheric studies.

Suggestions:

-page 18297, line 11: replace "proposed" by "proved";

-page 18297, line 24: replace "the urban" by "at a urban";

-page 18298, line 2: replace "but not in atmospheric conditions"; by "which cannot be

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found in atmospheric conditions";

-page 18298, lines 15-16: rephrase "provided by ... provide" in a more comprehensive way;

-page 18310, line 2: add "molecules" after 10^7

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 18295, 2008.

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