

## ***Interactive comment on “Particle formation at a continental background site: comparison of model results with observations” by U.Uhrner et al.***

### **Anonymous Referee #2**

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#### General comment:

The paper is well written. The idea to compare well obtained experimental data with model calculations is a good one. However the use of correction factor for nucleation rate is not well justified. Instead of this free parameter it is better to use recently published ternary nucleation parameterisation (Napari et al., JGR, 107, D19, 10.1029/2002JD002132, 2002).

Specific comment: The use of correction factor makes behaviour of nucleation and condensation thermodynamically inconsistent between each other. Therefore it would improve the paper a lot to perform this kind of calculations using ternary nucleation.

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Interactive comment on Atmos. Chem. Phys. Discuss., 2, 2413, 2002.

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