

Interactive comment on “Derivation of the stoichiometric coefficient of water (ν_w) to account for water uptake by atmospheric aerosols” by S. Metzger et al.

S. Metzger et al.

swen.metzger@mpic.de

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We deeply appreciate the time and effort everyone involved have devoted to this and the associated review process of Xu et al. 2009. We are in full agreement with the 3rd reviewer and fully accept the editor decision. Instead of salvaging the derivation of ν_w from first principles, we will concentrate on a comprehensive clarification of the EQSAM3 concept (ML07), describing all aspects of the principle clearly, covering all aspects of the model, detailing the aspects that are parameterisation and how the parameters are empirically derived (even though based on firm principles such as solubility) and those aspects that can be analytically derived, and all in relation to established

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concepts.

We will do this in the hope that such a parameterisation model and description paper may be a useful addition to the literature.

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 8165, 2010.

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