

***Interactive comment on “Formation of  
3-methyl-1,2,3-butanetricarboxylic acid via gas  
phase oxidation of pinonic acid – a mass  
spectrometric study of SOA aging” by L. Müller  
et al.***

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In table 1 when comparing SIMPOL results with experimental data the authors use data from Bilde and Pandis (2001), but that experimental data is solid state whereas SIMPOL gives liquid phase vapour pressures. We have measured pinonic acid and the (sub-cooled) liquid VP is about 6 times higher than the solid VP at 298 K, and 8 times higher at 283 K. I suspect pinic acid would be similar. We also have temperature dependant data for pinonic which gives the P(solid) at 283 K as 1.25e-5 Pa and P(liquid) as 1.1e-4 Pa.

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Refs Booth, A. M., Montague, W. J., Barley, M. H., Topping, D. O., McFiggans, G., Garforth, A., and Percival, C. J.: Solid state and sub-cooled liquid vapour pressures of cyclic aliphatic dicarboxylic acids, *Atmos. Chem. Phys.*, 11, 655–665, doi:10.5194/acp-11-655-2011, 2011.

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