

Interactive  
Comment

## ***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.***

**A. M. Booth**

alastair.booth@manchester.ac.uk

Received and published: 7 July 2011

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.

C6057

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper



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.

---

Interactive comment on *Atmos. Chem. Phys. Discuss.*, 11, 19443, 2011.

ACPD

11, C6057–C6058, 2011

---

Interactive  
Comment

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

C6058

