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Atmospheric Chemistry and Physics Discussions

Interactive comment on "In-situ ambient quantification of monoterpenes, sesquiterpenes, and related oxygenated compounds during BEARPEX 2007 – implications for gas- and particle-phase chemistry" *by* N. C. Bouvier-Brown et al.

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The rate coefficient for the reaction of ozone with beta-farnesene has recently been determined to be 4 x 10-16 cm3 molecule-1 s-1 (Kourtchev et al., 2009).

This is around a factor of two lower than the predicted value determined using the AOPwin program in the Estimation Programs Interface (EPI) Suite developed by the US EPA (US Environmental Protection Agency, 2007).

It seems unlikely that this will affect the results of the work, but we are sure that the authors would like to know that about this new experimental data.

References: Kourtchev, I., Bejan, I., Sodeau, J.R. and Wenger, J.C.: Gas-phase reaction of (E)-β-farnesene with ozone: Rate coefficient and carbonyl products, Atmos. Environ., 43, 3182-3190, 2009.

US Environmental Protection Agency, 2007. EPI Suite v.3.20. Washington, DC, Available from: <http://www.epa.gov/oppt/exposure/pubs/episuitedl.htm>

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 10235, 2009.