

Interactive comment on “The SOA/VOC/NO_x system: an explicit model of secondary organic aerosol formation” by M. Camredon et al.

Anonymous Referee #2

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General comments

The paper describes a modelling study of the the formation of secondary organic aerosol (SOA) from 1-octene. An explicit gas-phase oxidation scheme is coupled to a thermodynamic condensation module. The model is used to help understand the production of SOA during multiple oxidation steps of the primary hydrocarbon. The paper describes the system under a range of NO_x and VOC environments.

The methods and assumptions made in the analysis appear to be valid and are clearly described. The results are presented in a clear and concise manner. I can find no problems with the conclusions drawn by the authors.

Current understanding of SOA formation is very limited and this paper makes a useful

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contribution. This paper will be of interest to the community and I recommend publication in ACP.

Specific Comments:

Page 11234, Line 10. Should this be Y^{max} .

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 11223, 2007.

ACPD

7, S5295–S5296, 2007

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