

Interactive comment on “Phase, composition and growth mechanism for secondary organic aerosol from the ozonolysis of α -cedrene” by Y. Zhao et al.

Anonymous Referee #2

Received and published: 5 February 2016

General

This is a sound and very interesting study of SOA formation fm a-cedrene. I find the phase state investigations particularly interesting.

I have another, more general comment: Why is the role of secondary ozonides, as they are nicely discussed in depth e.g. by Yao et al., AE 2014, not discussed at all in this paper ? Maybe this can be added ?

Overall, I think the paper requires only few revisions / additions to be acceptable for ACP.

Details

[Full Screen / Esc](#)

[Printer-friendly Version](#)

[Interactive Discussion](#)

[Discussion Paper](#)



Page 34984, line 1: '.... in some environments'. - Maybe rephrase - SQ SOA contributions are more of local to regional rather than global importance. Maybe that can also be stated in the introduction.

P. 34986, l.1: Why were OH scavengers not applied ?

P. 34988, l. 9: Was only one filter sampled over a period from $t= 0$ to $t = 30$ min, i.e. for a collected volume of 360 l ? Please clarify. Would sequential filter sampling be possible ?

P 34989: The array of analytical techniques applied for SOA characterisation is impressive.

P.34994, l. 25: What does 'condense kinetically' mean ? A similar expression is also used at p 35007, l 3.

Interactive comment on *Atmos. Chem. Phys. Discuss.*, 15, 34981, 2015.

ACPD

15, C12237–C12238,
2016

Interactive
Comment

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

