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Interactive comment on “Aqueous-phase ozonolysis of methacrolein and methyl vinyl ketone: a potentially important source of atmospheric aqueous oxidants” by Z. M. Chen et al.

Anonymous Referee #1

Received and published: 23 January 2008

General:

The paper by Chen et al is a thorough study of the ozonolysis of MAK and MVK in aqueous solution. This study surely is well motivated as the reactands are important oxidation products of isoprene in both its ozonolysis as well as in its gas phase OH reaction. The paper is sound and contains an interesting news: Obviously hydrogen peroxide is formed which could have further implications for aqueous phase chemistry.

I have no major criticism with regard to the manuscript but I would like to suggest that

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the author compare the ozonolysis with typical aqueous phase ozone concentrations to the oxidation by radical such as OH and NO₃ in aqueous solution, page 17611/17612.

Details:

Abstract, line 18: The last sentence of the abstract is difficult to understand, please clarify.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 17599, 2007.

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