

Interactive comment on “The oleic acid-ozone heterogeneous reaction system: products, kinetics, secondary chemistry, and atmospheric implications of a model system – a review” by J. Zahardis and G. A. Petrucci

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A question to ask is, "If the Criegee intermediates do not isomerize to form acids in the liquid phase, then where do the small observed yields of nonanoic and azelaic acids (NA and AA) come from?" Secondary ozonides (SOZ) slowly break down in protic solvents (i.e., -COOH of oleic acid) to form acids. I suggest that the observed small yields of NA and AA come from the break down of some fraction of the SOZ's, i.e., third-generation products.

The commercial production of AA from liquid oleic acid occurs via the acid-catalyzed breakdown of SOZ's.

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