## **Accepted Manuscript**

Chemical characterization of organosulfates from the hydroxyl radical-initiated oxidation and ozonolysis of *cis*-3-hexen-1-ol

Thais S. Barbosa, Matthieu Riva, Yuzhi Chen, Cleyton M. da Silva, Jose Claudino S. Ameida, Zhenfa Zhang, Avram Gold, Graciela Arbilla, Glauco F. Bauerfeldt, Jason D. Surratt

PII: \$1352-2310(17)30264-9

DOI: 10.1016/j.atmosenv.2017.04.026

Reference: AEA 15293

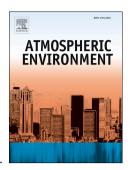
To appear in: Atmospheric Environment

Received Date: 25 October 2016

Revised Date: 3 April 2017
Accepted Date: 19 April 2017

Please cite this article as: Barbosa, T.S., Riva, M., Chen, Y., da Silva, C.M., Ameida, J.C.S., Zhang, Z., Gold, A., Arbilla, G., Bauerfeldt, G.F., Surratt, J.D., Chemical characterization of organosulfates from the hydroxyl radical-initiated oxidation and ozonolysis of *cis*-3-hexen-1-ol, *Atmospheric Environment* (2017), doi: 10.1016/j.atmosenv.2017.04.026.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## ACCEPTED MANUSCRIPT

Chemical Characterization of Organosulfates from
the Hydroxyl Radical-Initiated Oxidation and
Ozonolysis of <i>cis</i> -3-hexen-1-ol
Thais S. Barbosa <sup>a,b</sup> , Matthieu Riva <sup>c,d</sup> , Yuzhi Chen <sup>c</sup> , Cleyton M. da Silva <sup>e</sup> , Jose Claudino S.
Ameida <sup>e</sup> , Zhenfa Zhang <sup>c</sup> , Avram Gold <sup>c</sup> , Graciela Arbilla <sup>e</sup> , Glauco F. Bauerfeldt <sup>b</sup> , and Jason
D. Surratt <sup>c,*</sup>
<sup>a</sup> CAPES Foundation, Brazil Ministry of Education, Brasilia, DF 70.040-020, Brazil
<sup>b</sup> Departamento de Química, Instituto de Ciências Exatas, Universidade Federal Rural do Rio
de Janeiro, Seropédica, Brazil
<sup>c</sup> Department of Environmental Sciences and Engineering, Gillings School of Global Public
Health, The University of North Carolina at Chapel Hill, Chapel Hill, NC, USA
d Department of Physics, University of Helsinki, Finland
<sup>e</sup> Departamento de Físico-Química. Instituto de Química, Universidade Federal do Rio de
Janeiro. Rio de Janeiro, RJ, Brazil
* Corresponding Author: Email - surratt@unc.edu; Phone-1-(919)-966-0470
HIGHLIGHTS
<ul> <li>Organosulfates (OSs) identified from the gas-phase oxidation of <i>cis</i>-3-hexen-1-ol.</li> <li>Cis-3-hexe-1-ol derived OSs observed in PM<sub>2.5</sub> samples collected in Brazil.</li> <li>OH-initiated oxidation is the major channel leading to SOA formation.</li> </ul>
KEYWORDS  Green leaf volatiles, UPLC/ESI-QTOFMS, leaf alcohol, secondary organic aerosol, organosulfates.

## Download English Version:

## https://daneshyari.com/en/article/5753040

Download Persian Version:

https://daneshyari.com/article/5753040

<u>Daneshyari.com</u>