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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Evaluated kinetic and photochemical data for atmospheric chemistry: Volume V – heterogeneous reactions on solid substrates" *by* J. N. Crowley et al.

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The data sheet on HOI/ice, Appendix VA1.33 reveals that there are no data. However, uptake cofficients of HOI on ice in the range 180 to 200 K have been measured by A. Allanic and M.J. Rossi in J. Geophys. Res. 104, 189689-18696 (1999) in "Heterogeneous reactions of HOI on substrates of atmospheric importance". At the lowest pressure (residence time) of the used Knudsen flow reactor on the order of 1010 molecules cm-3 or lower "gamma" of 7.5 x10-2, 6.2x10-2 and 4.8x10-2 have been obtained at 180, 190 and 200 K, respectively. These are average values of eleven independent measurements (new ice substrate each time). The uptake kinetics does not show any

saturation behavior akin to HCl on ice in the quasi-liquid regime. A modified data sheet will be submitted shortly to the attention of the leading author.

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 5233, 2010.