Atmos. Chem. Phys. Discuss.,
doi:10.5194/acp-2017-39-RC2, 2017

Atmospheric Chemistry and Physics Discussions

Interactive comment on "Measurement-based modeling of daytime and nighttime oxidation of atmospheric mercury" *by* Maor Gabay et al.

Anonymous Referee #3

Received and published: 16 May 2017

Two basics:

1. The reaction Hg° + NO3 –> HgO + NO2 is endothermic by 190 KJ/mol 2. The bonding energy of HgO is a mere 4 Kcal/mol (Shepler & Peterson, 2003, JPC)

dismissed the validity of this study. There is no point to go further with a study that calculates HgO as a product of GEM oxidation by NO3. Peleg et al. (2015), the paper preceding the present one, should not have been published in the first place.

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2017-39, 2017.

Printer-friendly version

Discussion paper