

Electronic Supplementary Information

Observation of a large negative temperature dependence for rate coefficients of reactions of OH with oxygenated volatile organic compounds studied at 86-112 K

Shannon et al., PCCP, 2010.

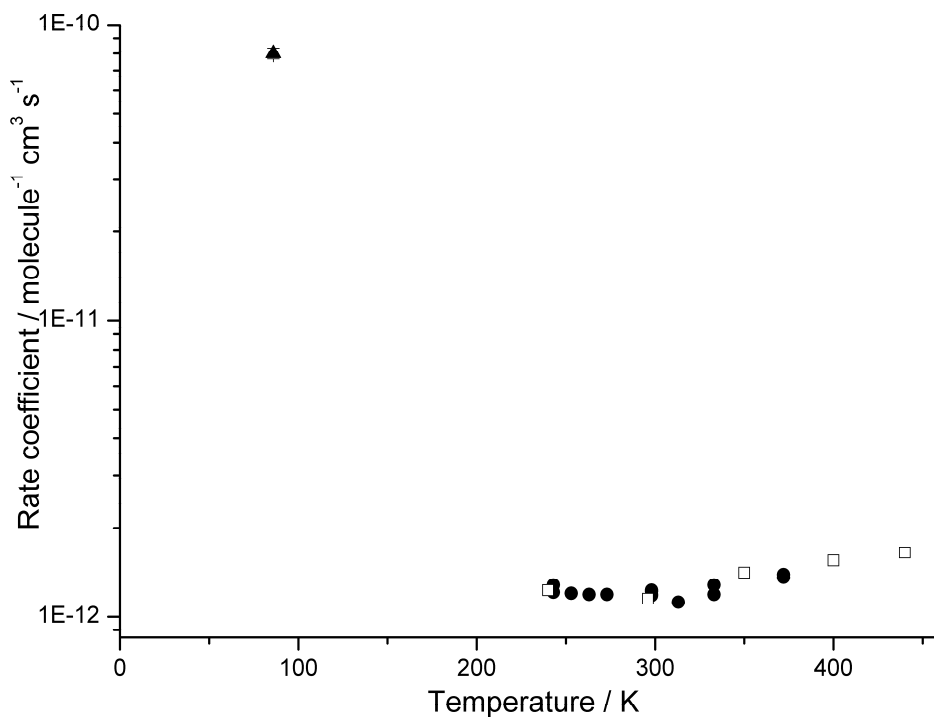


Figure S1. Comparison of rate coefficients for the reaction of OH + MEK (methyl ethyl ketone), measured using the pulsed Laval nozzle system (black triangles = this work), with previous measurements from the literature in the temperature range 240 – 500 K. Black circles = Le Calve *et al.* (1998),¹ open squares = Wallington and Kurylo *et al.* (1987).²

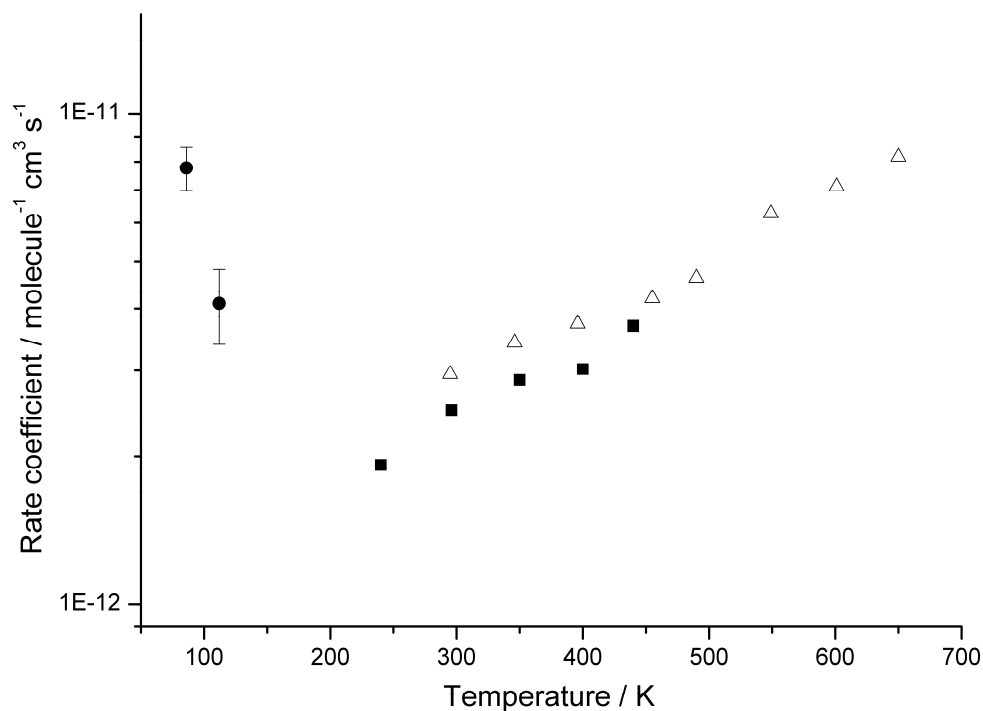


Figure S2. Comparison of rate coefficients for the reaction of OH + DME (di-methyl ether), made using the pulsed Laval nozzle system (black circles = this work), with previous measurements from the literature in the temperature range 240 – 650 K. Black squares = Wallington *et al.*,³ open triangles = Arif *et al.*⁴

- 1 S. Le Calve, D. Hitier, G. Le Bras and A. Mellouki, *J. Phys. Chem. A*, 1998, **102**, 4579-4584.
- 2 T. J. Wallington and M. J. Kurylo, *J. Phys. Chem.*, 1987, **91**, 5050-5054.
- 3 T. J. Wallington, R. Z. Liu, P. Dagaut and M. J. Kurylo, *Int. J. Chem. Kinet.*, 1988, **20**, 41-49.
- 4 M. Arif, B. Dellinger and P. H. Taylor, *J. Phys. Chem. A*, 1997, **101**, 2436-2441.