

IUPAC Task Group on Atmospheric Chemical Kinetic Data Evaluation – Data Sheet SOx39

Website: <http://iupac.pole-ether.fr>. See website for latest evaluated data. Data sheets can be downloaded for personal use only and must not be retransmitted or disseminated either electronically or in hardcopy without explicit written permission.

This data sheet updated: 19th November 2001.

HSO + O₂ → products

Rate coefficient data

$k_{\infty}/\text{cm}^3 \text{ molecule}^{-1} \text{ s}^{-1}$	Temp./K	Reference	Technique/ Comments
<i>Absolute Rate Coefficients</i> $\leq 2.0 \times 10^{-17}$	296	Lovejoy, Wang and Howard, 1987 ¹	DF-LMR

Preferred Values

$k \leq 2.0 \times 10^{-17} \text{ cm}^3 \text{ molecule}^{-1} \text{ s}^{-1}$ at 296 K.

Comments on Preferred Values

The reaction is slow and only an upper limit to k is available.¹

References

- ¹ E. R. Lovejoy, N. S. Wang and C. J. Howard, *J. Phys. Chem.* **91**, 5749 (1987).