Accessory Publication for:

Autoxidation of SIV inhibited by chlorophenols reacting with sulfate radicals

Józef Ziajka and Krzysztof J. Rudzinski

Department of Catalysis on Metals, Institute of Physical Chemistry of the Polish Academy of Sciences, Kasprzaka 44/52, 01-224 Warsaw, Poland.

A Corresponding author: Tel. +48-22-3433402; fax: +48-22-3433448; Email: kjrudz@ichf.edu.pl

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Section Inhibition of $S^{IV}$ autoxidation

**Fig. A1.** Inhibition of batch autoxidation of NaHSO$_3$ by 4-CP (a), 2,4-DCP (b), 2,4,5-TCP (c), 2,4,6-TCP (d) and 2,3,5,6-TTCP (e) at 25 $^\circ$C and pH $\approx$ 3.0.

Initial concentrations of reactants: NaHSO$_3$ – 2×10$^{-3}$ M, O$_2$ ~ 2.5×10$^{-4}$ M, Fe(ClO$_4$)$_3$ – 1×10$^{-5}$ M, chlorophenol – given in the plot. Plot for 2,5-DCP was placed in the main paper (Fig. 2).
Section Rate constants for reactions of chlorophenols with $SO_4^{\cdot-}$ radicals

Fig. A2. Reciprocal quasi-stationary rates of NaHSO$_3$ autoxidation catalyzed by Fe(ClO$_4$)$_3$ and inhibited by 4-CP (a), 2,4-DCP (b), 2,4,5-TCP (c), 2,4,6-TCP (d) and 2,3,5,6-TTCP (e), at 25 °C and pH ≈ 3.0. Initial concentrations of reactants: NaHSO$_3$ – 2×10$^{-3}$ M, O$_2$ – 2.5×10$^{-4}$ M, Fe(ClO$_4$)$_3$ – 1×10$^{-5}$ M, chlorophenol – given in the plot. Plot for 2,5-DCP was placed in the main paper (Fig. 7).