Oxoiron(IV) complexes of the tris(2-pyridylmethyl)amine ligand family: effect of pyridine α -substituents

Tapan K. Paine · Miquel Costas · József Kaizer ·
Lawrence Que Jr

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Table 1 and Fig. 5 appear corrected below:

Table 1 Reactivity properties of oxoiron(IV) complexes at -40°C (except where noted)

$[(\text{L})\text{Fe}^{\text{IV}}(\text{O})]^{2+}$	L = TPA (3)	L = 6-Me-TPA (3a)	L = QBPA (3b)
k_2 PhCH ₂ OH	$0.10 \text{ M}^{-1} \text{ s}^{-1}$	$0.067 \text{ M}^{-1} \text{ s}^{-1}$	$0.075 \text{ M}^{-1} \text{ s}^{-1}$
KIE PhCH ₂ OH	37	34	Not measured
k_2 Ph ₃ CH	$0.070 \text{ M}^{-1} \text{ s}^{-1}$	$0.041 \text{ M}^{-1} \text{ s}^{-1}$	$0.16 \text{ M}^{-1} \text{ s}^{-1}$
k_2 PhSCH ₃	$0.97 \text{ M}^{-1} \text{ s}^{-1}$	$19 \text{ M}^{-1} \text{ s}^{-1}$	$24 \text{ M}^{-1} \text{ s}^{-1}$
$t_{1/2}$ at 10°C	1 h	20 min	16 min

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T. K. Paine · M. Costas · J. Kaizer · L. Que Jr (✉)
Department of Chemistry and Center
for Metals in Biocatalysis,
University of Minnesota,
Minneapolis, MN 55455, USA
e-mail: que@chem.umn.edu

Present Address:

T. K. Paine
Department of Inorganic Chemistry,
Indian Association for the Cultivation of Science,
2A&2B Raja S C Mullick Road, Calcutta 700032, India

Present Address:

M. Costas
Departament de Química, Universitat de Girona,
17071 Girona, Spain

Present Address:

J. Kaizer
Research Group for Petrochemistry,
Hungarian Academy of Sciences,
8200 Veszprem, Hungary

Fig. 5 Comparison of the reaction rates of **3**, **3a**, and **3b** in the oxidation of benzyl alcohol (*BnOH*), triphenylmethane (*TPM*), and thioanisole (*PhSMe*)