

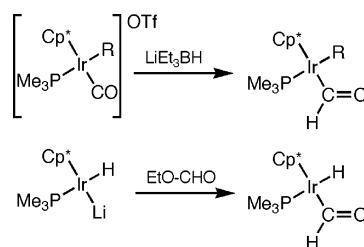
# Additions and Corrections

2005, Volume 24

**Anthony F. Hill,\* Derek A. Tocher, Andrew J. P. White, David J. Williams, and James D. E. T. Wilton-Ely\***: Thiocarbamoyl Complexes of Ruthenium(II), Rhodium(III), and Iridium(III)

Pages 5342–5355. In this paper we reported a rare example of an iridium formyl complex but neglected to draw readers' attention to two earlier examples of isolable iridium formyl complexes reported by Bergman, [IrX(CHO)(PMe<sub>3</sub>)(η-C<sub>5</sub>Me<sub>5</sub>)] (X = H,<sup>1</sup> C<sub>6</sub>H<sub>4</sub>Me-4<sup>2</sup>) (Scheme 1). For convenience, comparative IR and NMR data for iridium formyls are presented in Table 1.

**Scheme 1. Synthesis of Iridium Formyls**  
(Cp\* = η<sup>5</sup>-C<sub>5</sub>Me<sub>5</sub>)<sup>1,2</sup>



**Table 1. Spectroscopic Data<sup>a</sup> for Iridium Formyls**

complex	IR		NMR	
	ν <sub>CO</sub>	ν <sub>CH</sub>	δ(C <sub>HCO</sub> ) [ <sup>2</sup> J <sub>PH</sub> ] ( <sup>1</sup> J <sub>HC</sub> )	δ(H <sub>C</sub> ) [ <sup>3</sup> J <sub>PH</sub> ]
[Ir(CHO)H(PMe <sub>3</sub> ) <sub>4</sub> ] <sup>+3</sup>	1600	2622	225.4 [10, 5.4] (150)	14.0 [6.5, 4.0] <sup>b</sup>
[Ir(CHO)HCl(PMe <sub>3</sub> ) <sub>3</sub> ] <sup>3</sup>	1600	2585		15.0 [8.0]
[Ir(CHO)HI(PMe <sub>3</sub> ) <sub>3</sub> ] <sup>4</sup>	1620, 1600	2580		14.9 [6.8, 4.1]
[Ir(CHO)H(PMe <sub>3</sub> )(C <sub>5</sub> Me <sub>5</sub> )] <sup>1</sup>	1591	2713, 2694	219.2 [11.6]	15.25 [4]
[Ir(CHO)(C <sub>6</sub> H <sub>4</sub> Me)(PMe <sub>3</sub> )(C <sub>5</sub> Me <sub>5</sub> )] <sup>2</sup>	1600	2732	231.6 [br]	13.8 [1.7]
[Ir(CHO)(SCNMe <sub>2</sub> )Cl(CO)(PPh <sub>3</sub> ) <sub>2</sub> ] <sup>5</sup>	1618	2720, 2592	215.2 [5.4] (164.2)	14.67 [6.6]

<sup>a</sup> IR data are given in cm<sup>-1</sup>; NMR chemical shifts (δ) are given in ppm and coupling constants (J) in Hz. <sup>b</sup> For phosphorus cis to formyl.

(1) Peterson, T. H.; Golden, J. T.; Bergman, R. G. *Organometallics* **1999**, *18*, 2005.

(2) Alaimo, P. J.; Arndtsen, B. A.; Bergman, R. G. *Organometallics* **2000**, *19*, 2130.

(3) Thorn, D. L. *Organometallics* **1982**, *1*, 197.

(4) Thorn, D. L.; Tulip, T. H. *Organometallics* **1982**, *1*, 1580.

(5) This work.

OM060182R

10.1021/om050182r

Published on Web 03/14/2006