Electronic Supplementary Material (ESI) for New Journal of Chemistry

Phosphorus Stabilised Copper(I) Complexes of Dithiocarbamates and Xanthates and their Decomposition Pathways

Mohammad Afzaal,[a] Chico L. Rosenberg,[b] Mohammad A. Malik,[c] Andrew J. P. White[b] and Paul O'Brien*[c]

[a] Center of Research Excellence in Renewable Energy, King Fahd University of Petroleum and Minerals, PO Box 1292, Dhahran, 31261 Saudi Arabia

[b] Department of Chemistry, Imperial College of Science, Technology and Medicine, London, SW7 2AY, UK

[c] School of Chemistry and School of Materials, The University of Manchester, Oxford Road, Manchester, M13 9PL, UK; E-mail: paul.obrien@manchester.ac.uk

Table S1: Experimental details and instrumentation for GC-MS of compounds (**3**) and (**4**).

		Compd. (**3**)	Compd. (**4**)
Column Specs.	Column type	GC1	12QC/BP1 0.25
	Supplier	GC^2	SGE (Australia)
	Stationary phase	Methyl siloxane	Methyl siloxane
	Stationary phase thickness (µm)	0.25	0.25
	Length (m)	25	12
	International diameter (mm)	0.25	0.20
Temperature Program	Initial temp.	100	100
	Time held at initial temp. (min)	2	1
	Heating ramp rate (^{o}C min^{-1})	4	4
	Final temp (^{o}C)	300	300
Carrier gas and injection specs.	Carrier gas used	He	He
	Flow rate (sccm), pressure (bar)	1, ~0.69	1, ~0.69
	Injection temp. (^{o}C)	100	320
	Interface temp. (^{o}C)	300	300
	Volume of injected sample (µl)	~0.20	~0.25
Mass spectrometer settings	Ionisation mode	EI$^+$	EI$^+$
	Output *m/z* range	35 – 750	35 – 750
	Scan speed (s dec^{-1})	0.8	0.5
	Interval between scans (s)	0.1	0.1
	Accelerating voltage (KV)	3.0	3.0
	Bean curent (eV)	70	70
	Detector voltage (kV)	2.2	2.2