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Supporting information for the paper:

## Catalytic cleavage of lignin $\beta$ -O-4 link mimics using copper on alumina and magnesia-alumina.

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### 1. NMR spectra of 2-phenoxy-1-phenylethanone **1** and 2-phenoxy-1-phenylethanol **2**

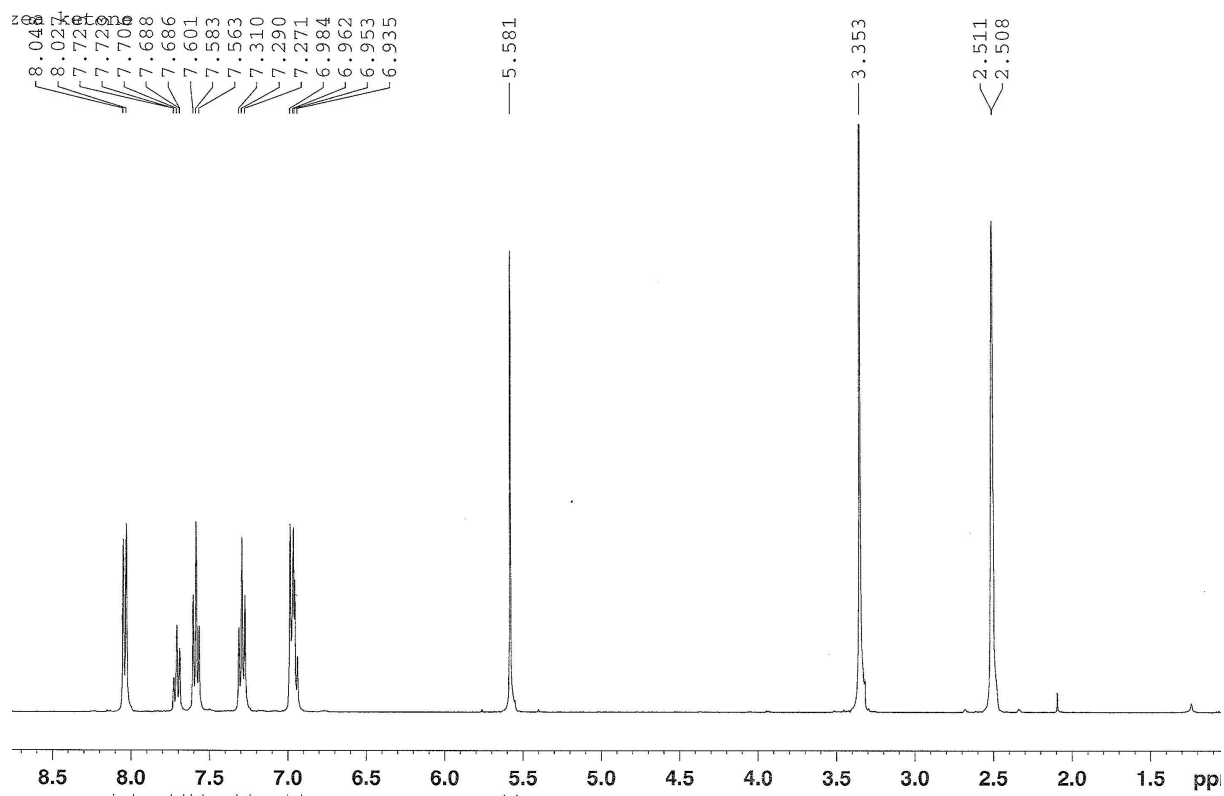


Figure S1: NMR for 2-phenoxy-1-phenylethanone **1**

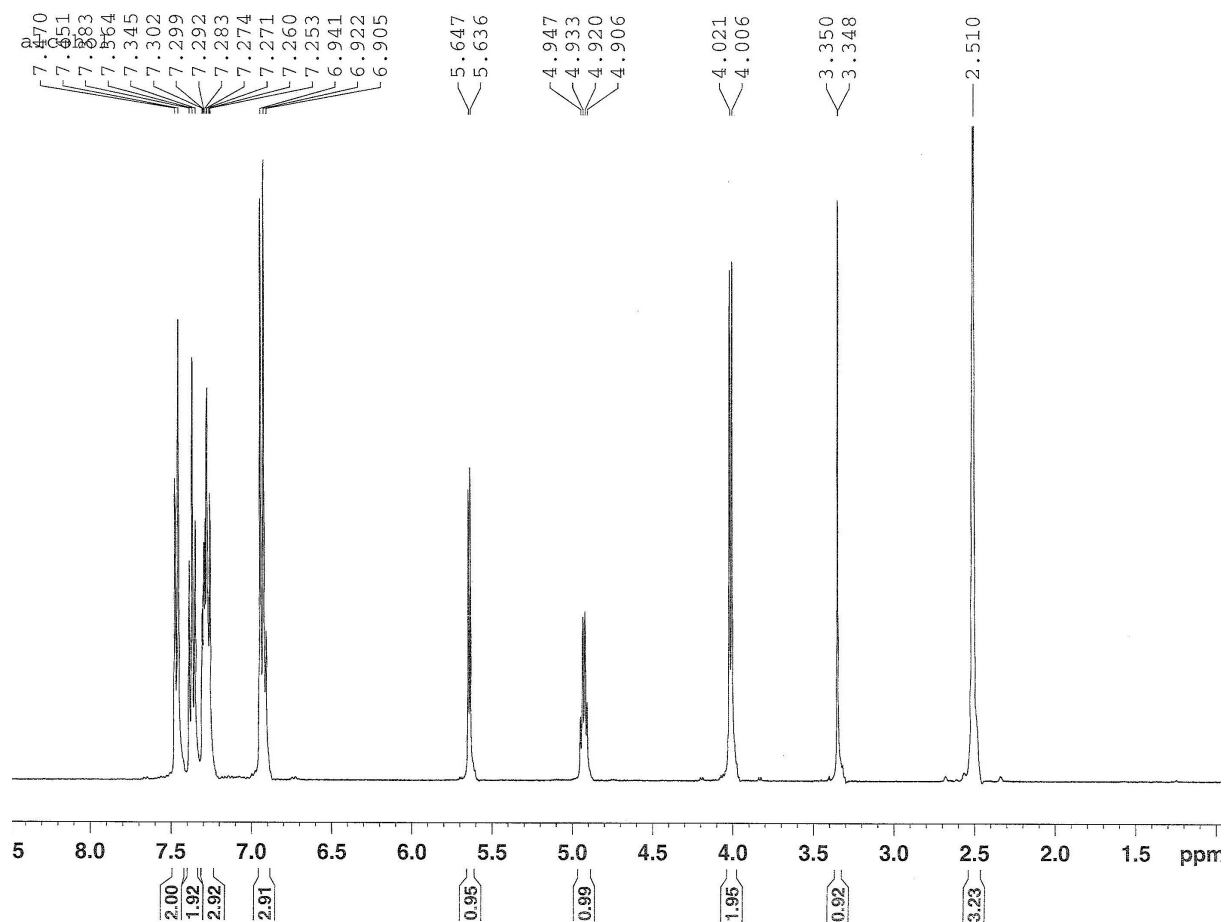


Figure S2: NMR for 2-phenoxy-1-phenylethanol 2

## 2. Surface area measurements (BET method)

Name	Active species	Support	Surface area [m <sup>2</sup> /g]	Pore volume [cm <sup>3</sup> /g]
Al <sub>2</sub> O <sub>3</sub>	-	Al <sub>2</sub> O <sub>3</sub>	193	0.46
MgO-Al <sub>2</sub> O <sub>3</sub>	-	MgO-Al <sub>2</sub> O <sub>3</sub>	175	0.45
Cu/MgO-Al <sub>2</sub> O <sub>3</sub>	10%Cu	MgO-Al <sub>2</sub> O <sub>3</sub>	166	0.26
Cu/Al <sub>2</sub> O <sub>3</sub>	10% Cu	Al <sub>2</sub> O <sub>3</sub>	140	0.35