Electronic Supplementary Information (ESI) for

Rearrangement of aldoximes to amides in water under air atmosphere catalyzed by water-soluble iridium complex [Cp*Ir(H₂O)₃][OTf]₂

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benzamide
Proton CDC13

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benzamide
C13CPD CDCl3
4-methylbenzamide
Proton CDCl3
4-methylbenzamide
C13CPD CDCl3

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4-isopropylbenzamide
Proton CDCl3

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4-isopropylbenzamide
C13CPD CDCl3

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4-(tert-butyl)benzamide
Proton CDCl$_3$
4-(tert-butyl)benzamide

C13CPD CDCl3

[Chemical structure and spectrum data]
4-methoxybenzamide
Proton DMSO-d6
4-methoxybenzamide
C13CPD  DMSO-d6
3,4-dimethoxybenzamide
Proton CDCl₃
3,4-dimethoxybenzamide
C13CPD  CDCl3

\[
\begin{align*}
169.179 & \quad 152.097 & \quad 125.843 & \quad 120.133 & \quad 110.731 & \quad 110.179
\end{align*}
\]

\[
\begin{align*}
77.000 & \quad 55.968
\end{align*}
\]
2-fluorobenzamide
Proton DMSO-d6
2-fluorobenzamide
C13CPD DMSO-d6
4-fluorobenzamide
Proton DMSO-d6
2-chlorobenzamide
Proton CDCl3

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2-chlorobenzamide
C13CPD CDCl3

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4-chlorobenzamide
Proton DMSO-d6
4-chlorobenzamide
C13CPD DMSO-d6
3,4-dichlorobenzamide
Proton DMSO-d6
3,4-dichlorobenzamide
C13CPD DMSO-d6
2-bromobenzamide
Proton DMSO-d6
2-bromobenzamide
C13CPD DMSO-d6

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4-bromobenzamide
Proton DMSO-d$_6$
4-bromobenzamide
C13CPD DMSO-d6
2-nitrobenzamide
Proton DMSO-\textit{d}6
2-nitrobenzamide
C13CPD DMSO-d6
4-nitrobenzamide
Proton DMSO-d6

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4-nitrobenzamide
C13CPD DMSO-d6
3-(trifluoromethyl)benzamide
Proton DMSO-d6
3-(trifluoromethyl)benzamide
C13CPD DMSO-d6
4-(trifluoromethoxy)benzamide
Proton DMSO
4-(trifluoromethoxy)benzamide

C13CPD  DMSO-d6

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2-naphthamide
Proton DMSO-d6
2-naphthamide

C13CPD DMSO-d6
thiophene-2-carboxamide
Proton DMSO-d6
thiophene-2-carboxamide
C13CPD DMSO-d6
2-phenylacetamide
Proton CDCl3
2-phenylacetamide
C13CPD CDC13
3-phenylpropanamide
Proton DMSO-d6
3-phenylpropanamide
C13CPD DMSO-d6
butyramide
Proton CDCl₃
butyramide
C13CPD CDCl3
hexanamide
Proton CDCl3
hexanamide
C13CPD CDC13

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cinnamamide
Proton DMSO-d6
cinnamamide
C13CPD DMSO-d6

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(E)-3-(m-tolyl)acrylamide

Proton CDCl₃
(E)-3-(m-tolyl)acrylamide
C13CPD CDC13
(E)-3-(2-nitrophenyl)acrylamide
Proton DMSO-d6
(E)-3-(2-nitrophenyl)acrylamide

C13CPD DMSO-d6
(E)-3-(4-fluorophenyl)acrylamide

Proton DMSO-d6
(E)-3-(4-fluorophenyl)acrylamide
C13CPD DMSO-d6
(E)-3-(3-chlorophenyl)acrylamide
Proton CDCl3
(E)-3-((3-chlorophenyl)acrylamide
C13CPD CDCl3

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(E)-3-(furan-2-yl)acrylamide
Proton DMSO-d6

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(E)-3-(furan-2-yl)acrylamide
C13CPD DMSO-d6
2,5-dimethylhex-4-enamide
Proton CDCl3
2,5-dimethylhex-4-enamide
C13CPD CDCl3
cyclohex-3-enecarboxamide
Proton DMSO-d6

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cyclohex-3-ene carboxamide
C13CPD DMSO-d6