Supporting information

Metal-Free Hypervalent Iodine/TEMPO Mediated Oxidation of Amines and Mechanistic Insight into the Reaction Pathways

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Further Mechanistic Study by Using GC-MS of reaction mechanism
Chemical Formulas: C_{14}H_{13}N

Exact Mass: 195.10
$^1$H and $^{13}$C Spectra of 2a
$\text{Chemical Shift (ppm)}$

$\text{1H and 13C Spectra of 2b}$
H and C Spectra of 2c
$^1\text{H}$ and $^{13}\text{C}$ Spectra of 2d
\[ \text{Chemical Shift (ppm)} \]

\[ \text{1H and 13C Spectra of 2e} \]
1H and 13C Spectra of 2f


\[ \text{Chemical Shift (ppm)} \]

\[ \text{1H and } ^{13}\text{C Spectra of 2g} \]
$^{1}$H and $^{13}$C Spectra of 2h
$^1$H and $^{13}$C Spectra of 2i
$^{1}H$ and $^{13}C$ Spectra of 2j
1H and 13C Spectra of 2k
We conducted a study on the 1H and 13C spectra of 2l.
$\text{H and } ^{13}\text{C Spectra of 2m}$
$\text{Chemical Shift (ppm)}$

$\text{1H and 13C Spectra of 2n}$
$\text{H and }^{13}\text{C Spectra of 2o}$
$^{1}H$ and $^{13}C$ Spectra of 2p
$^1$H and $^{13}$C Spectra of 2q
The image contains spectra of 1H and 13C for compound 2r.

**1H Spectra of 2r**

- Peak at 2.01 ppm
- Peak at 3.12 ppm
- Peak at 7.5 ppm

**13C Spectra of 2r**

- Peak at 107 ppm
- Peak at 128 ppm
- Peak at 26 ppm
$\text{Chemical Shift (ppm)}$

$\text{1H and 13C Spectra of 2s}$
$^1$H and $^{13}$C Spectra of 2t
$\text{Chemical Shift (ppm)}$

$1^H$ and $13^C$ Spectra of 2u
$^1$H and $^{13}$C Spectra of 2v
$\text{H and } ^{13}\text{C Spectra of 2w}$
$^1$H and $^{13}$C Spectra of 2x
\textbf{1H and 13C Spectra of 2y}
$^{1}\text{H}$ and $^{13}\text{C}$ Spectra of 2-Benzylisoindoline-1,3-dione(p)
$\text{Chemical Shift (ppm)}$
$\text{NH}_2$ $\text{O}$

$\text{C}_\text{hime}$ $\text{shif}(\text{p} \text{pm})$

$\text{H and }^{13}\text{C Spectra of Amino(phenyl)methyl acetate (r)}$

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