Supplementary Material

Bis(trifluoroacetoxy)iodo benzene (PIFA)-promoted transamidation of carboxamides and carboxylic acids with amines

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X-ray crystallographic data of compound 3f ........................................................................................................S2
1H and 13C NMR spectra of compounds 3a-3o ..................................................................................................S3
X-ray crystallographic analysis
Crystallization of compound 3f was done at room temperature using ethyl acetate and heptane as a solvent system.

X-ray crystal structure of compound 3f (CCDC 2167435)

<table>
<thead>
<tr>
<th>Moiety formula</th>
<th>C$_7$H$_4$F$_2$NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>1360.2</td>
</tr>
<tr>
<td>Cell</td>
<td>a=8.497(1) b=11.388(1) c=14.057(1) alpha=90 beta=90 gamma=90</td>
</tr>
<tr>
<td>Temperature</td>
<td>273 K</td>
</tr>
<tr>
<td>Wavelength</td>
<td>0.71073</td>
</tr>
<tr>
<td>Z</td>
<td>8</td>
</tr>
<tr>
<td>R (%)</td>
<td>5.08</td>
</tr>
</tbody>
</table>
$^1$H & $^{13}$C of Compound 3a
$^1$H & $^{13}$C of Compound 3b
$^1$H & $^{13}$C of Compound 3c
$^1$H & $^{13}$C of Compound 3d
$^1\text{H}$ & $^{13}\text{C}$ of Compound 3e
$^1$H & $^{13}$C of Compound 3f
$^1$H & $^{13}$C of Compound 3g
$^1$H & $^{13}$C of Compound 3h
$^1$H & $^{13}$C of Compound 3i
$^1$H & $^{13}$C of Compound 3j
$^1$H & $^{13}$C of Compound 3k
$^1$H & $^{13}$C of Compound 3I
$^1$H & $^{13}$C of Compound 3m
$^1$H & $^{13}$C of Compound 3n
$^1$H & $^{13}$C of Compound 3o