# Synthesis of Allenes via Gold-Catalyzed Intermolecular Reaction of Propargylic Alcohols and Aromatic Compounds 

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Supporting Information

## Contents

NMR spectra for allenes 3 ..... S2

$\left.\begin{array}{l}\angle 8^{\prime} 61 \\ 50^{\prime} 12 \\ 88^{\prime} 12\end{array}\right\rangle$

(







$\left.\begin{array}{l}48^{\prime} 0 Z \\ \mathrm{SI}^{\prime} 1 Z \\ 1 \mathrm{E}^{\prime} \mathrm{IZ}\end{array}\right\rangle$


$\left.\begin{array}{l}\angle 8921 \\ 60821\end{array}\right]$
\&1'6 द1
2E621
OS'IEI-
$\left.\begin{array}{l}88981 \\ 65981\end{array}\right]$
\&9981
$\left.\begin{array}{l}89^{\circ} 9 \\ 00 \angle L \\ Z \varepsilon \angle L\end{array}\right]$
59.66
S1 ${ }^{\prime} 6^{\prime-}$
,








$\begin{aligned} & 68^{\circ} 0 z \\ & 6 z^{\prime} 12\end{aligned}>$




N

6721
0281
$\rightarrow 102-5$
Lでして
$89^{\circ} 9 \angle$
$00^{\circ} \angle L$
$2 E \angle L$$\Rightarrow$
$\begin{aligned} & 2 \varepsilon 76 \\ & 85+76\end{aligned}>$

9 COZI－
ELSZI－
$6+821-$
700 L
650 I
$\rightarrow$ じโを1
て6て\＆1
CISE1－
SESE1－
EL＇GEL




















$8 L^{\prime} 92$
$01.21=$
2ヵ 24

96 1p6-
$88: 201-$
${ }^{29981}$
$28921-1$

02.781
75.981
09.981

09 gsI
b 9 get


09 zoz-

(

$\begin{aligned} & 92 \cdot 9 L \\ & 80 \cdot 24 \\ & 00 \cdot 24\end{aligned}>$
$86 \cdot 96$

ल
$\left.\begin{array}{l}22.981 \\ 68.981- \\ 98.821 \\ 95.821 \\ 2 Z .881 \\ 18.981 \\ 91.981 \\ 99.981\end{array}\right]$
8L'TOZ-








