\(^1\text{H NMR and }^{13}\text{C NMR Spectra of New Compounds}\)
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 3aa.
\(^1\)H NMR (500 MHz, CDCl\(_3\)) of compound 5aa.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 5aa.
$^1$H NMR (500 MHz, $C_6D_6$) of compound 5ab.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 5ab.
$^1$H NMR (500 MHz, C$_6$D$_6$) of compound 5ac.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 5ac.
$^1$H NMR (500 MHz, C$_6$D$_6$) of compound 5ad.

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$^{13}$C NMR (125 MHz, C$_6$D$_6$) of compound 5ad.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 5ae.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 5ae.
$^1$H NMR (500 MHz, CDCl₃) of compound 5af.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 5af.
$^1$H NMR (400 MHz, CDCl$_3$) of compound 5ag.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 5ag.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 5ba.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 5ba.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 5ca.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 5ca.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 5da.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 5da.
$^1$H NMR (400 MHz, CDCl$_3$) of compound 5ea.
$^{13}$C NMR (100 MHz, CDCl$_3$) of compound 5ea.
$^1$H NMR (400 MHz, CDCl$_3$) of compound 5fa.
$^{13}$C NMR (100 MHz, CDCl$_3$) of compound 5fa.
$^1$H NMR (400 MHz, CDCl$_3$) of compound 1a.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 1a.
$^1$H NMR (400 MHz, CDCl$_3$) of compound 1d.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 1d.
$^1$H NMR (400 MHz, CDCl$_3$) of compound 1e.
$^{13}$C NMR (100 MHz, CDCl$_3$) of compound 1e.
$^{1}H$ NMR (400 MHz, CDCl$_3$) of compound 1f.
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$^{13}$C NMR (100 MHz, CDCl$_3$) of compound 1f.
$^1$H NMR (400 MHz, CDCl$_3$) of compound S5aa.
$^{13}$C NMR (100 MHz, CDCl$_3$) of compound S5aa.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7aa.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7aa.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7aa'.

$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7aa'.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ba.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7ba.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ba'. 
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7ba.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ca.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7ca.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ca'.

![Chemical Structure](image)
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7ca'.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7da.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7da.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7da'.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7da.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ab.
$^{13}$C NMR (125 MHz, CDCl₃) of compound 7ab.
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$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ab$^\ast$. 
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7ab'.

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$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ad.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7ad.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ad$^*$. 

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$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7ad'.

13C NMR (125 MHz, CDCl$_3$) of compound 7ad'.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ae.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7ae.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ae'.

$^1$H NMR (500 MHz, CDCl$_3$) of compound 7ae'.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7ae.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7af.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7af.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 7af$^*$. 
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 7af$^\ddagger$. 
$^1$H NMR (500 MHz, CDCl$_3$) of compound S2.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound S2.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 9aa.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 9aa.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 6b.
$^{13}$C NMR (125 MHz, CDCl$_3$) of compound 6b.
$^1$H NMR (500 MHz, CDCl$_3$) of compound 6d.
\textsuperscript{13}C NMR (125 MHz, CDCl\textsubscript{3}) of compound 6d.