\( ^1H \) NMR spectrum of 4

\( ^1H \) NMR spectrum of 5
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$^{13}$C NMR spectrum of 8

$^1$H NMR spectrum of 9
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$^{13}$C NMR spectrum of 9

$^1$H NMR spectrum of 7
$^1$H NMR spectrum of 10

$^1$H NMR spectrum of 11
$^{13}$C NMR spectrum of 11

$^1$H NMR spectrum of 6
$^1$C NMR spectrum of 6

$^1$H NMR spectrum of 13
\(^{13}\)C NMR spectrum of 13

\(^{1}H\) NMR spectrum of 14
$^{13}C$ NMR spectrum of 14

$^1H$ NMR spectrum of 12
$^{13}$C NMR spectrum of 12

$^1$H NMR spectrum of 15
$^{13}$C NMR spectrum of 15

$^1$H NMR spectrum of 16
\[\text{\[^{13}C\] NMR spectrum of 16}\]

\[\text{\[^{1}H\] NMR spectrum of 20}\]
$^{13}$C NMR spectrum of 20

$^{31}$P NMR spectrum of 20
$^1$H NMR spectrum of 21

$^{13}$C NMR spectrum of 21
\[ \text{\(^1\)H NMR spectrum of 22} \]

\[ \text{\(^31\)P NMR spectrum of 21} \]
$^{13}$C NMR spectrum of 22

$^{31}$P NMR spectrum of 22