Supporting Information

Synthesis and properties of α-bromomethyl substituted β-alkoxyvinyl polyfluoroalkyl ketones

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$^1$H NMR spectrum of compound 5b
$^{13}$C NMR spectrum of compound 5b

$^{19}$F NMR spectrum of compound 5b
$^{1}H$ NMR spectrum of compound 5c

$^{13}C$ NMR spectrum of compound 5c
$^{19}$F NMR spectrum of compound 5c

$^1$H NMR spectrum of compound 5d
$^{13}$C NMR spectrum of compound 5d

$^{19}$F NMR spectrum of compound 5d
$^{1}H$ NMR spectrum of compound 5e

$^{13}C$ NMR spectrum of compound 5e
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$^1$H NMR spectrum of compound 7
$^{13}$C NMR spectrum of compound 7

$^{13}$C NMR spectrum of compound 8
1H NMR spectrum of compound 8

\[ \text{F}_3\text{C} \begin{array}{c} \text{O} \\ \text{O} \\ \text{N}_3 \end{array} \]

\[ \text{\textbf{8}} \]

13C NMR spectrum of compound 8

\[ \text{F}_3\text{C} \begin{array}{c} \text{O} \\ \text{O} \\ \text{N}_3 \end{array} \]

\[ \text{\textbf{8}} \]

13C NMR spectrum of compound 8
$^1\text{H}$ NMR spectrum of compound 9

$^{19}\text{F}$ NMR spectrum of compound 8
$^{13}$C NMR spectrum of compound 9

$^{19}$F NMR spectrum of compound 9
$^{1}H$ NMR spectrum of compound 10

$^{13}C$ NMR spectrum of compound 10
$^{19}$F NMR spectrum of compound 10

$^1$H NMR spectrum of compound 11
13C NMR spectrum of compound 11

19F NMR spectrum of compound 11
$^{1}$H NMR spectrum of compound 12a

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

$^{13}C$ NMR spectrum of compound 12c
$^{19}$F NMR spectrum of compound 12c

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

$^{19}$F NMR spectrum of compound 12d
$^{1}H$ NMR spectrum of compound 12e

$^{13}C$ NMR spectrum of compound 12e
$^{19}$F NMR spectrum of compound 12e

$^1$H NMR spectrum of compound 12f
\[ \text{F}_{3}\text{C}-\text{N} \]

$^{13}$C NMR spectrum of compound 12f

$^{19}$F NMR spectrum of compound 12f
$^{1}H$ NMR spectrum of compound 13

$^{13}C$ NMR spectrum of compound 13
$^{19}$F NMR spectrum of compound 13

$^1$H NMR spectrum of compound 14
$^{13}$C NMR spectrum of compound 14

$^{19}$F NMR spectrum of compound 14
IR spectrum of compound 9