Supplementary Material

A simple route for synthesis of 5-(furan-3-yl)barbiturate/thiobarbiturate derivatives via a multi-component reaction between arylglyoxals, acetylacetone and barbituric/thiobarbituric acid

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\(^{13}\text{C} \text{NMR} \,(125 \text{ MHz, } d_{6}\text{-DMSO}) \text{ spectrum of compound 4a}

\text{IR Spectrum (IR (KBr) } \nu_{\text{max}}/\text{cm}^{-1} \text{) of compound 4b}
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$^1$H NMR Spectrum (500 MHz, d$_6$-DMSO) of compound 4e
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$^{13}$C NMR (125 MHz, $d_6$-DMSO) spectrum of compound 4f
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$^1$H NMR Spectrum (500 MHz, d$_6$-DMSO) of compound 4h

$^{13}$C NMR (125 MHz, d$_6$-DMSO) spectrum of compound 4h
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IR Spectrum (IR (KBr) $\nu_{\text{max}}$/cm$^{-1}$) of compound 4m
$^1$H NMR Spectrum (500 MHz, d$_6$-DMSO) of compound 4m

$^{13}$C NMR (125 MHz, d$_6$-DMSO) spectrum of compound 4m