# SUPPORTING INFORMATION

Kinetic and Mechanistic Investigation of the Aminolysis of 3-Methoxyphenyl 3-Nitrophenyl Thionocarbonate, 3-Chlorophenyl 3-Nitrophenyl Thionocarbonate, and Bis(3-nitrophenyl) Thionocarbonate

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$^1$H NMR and $^{13}$C NMR data for thionocarbonate **6**.

$^1$H NMR (200 MHz, $CDCl_3$) δ 3.85 (s, 3H), 6.80 (ddd, 1H, $J$ = 1.8, 4.2, 6.6 Hz), 6.86 (t, 1H, $J$ = 1.4 Hz), 6.91 (ddd, 1H, $J$ = 0.9, 2.6, 8.4 Hz), 7.38 (t, 1H, $J$ = 8.2 Hz), 7.59 (ddd, 1H, $J$ = 1.6, 2.1, 8.2 Hz), 7.66 (t, 1H, $J$ = 7.9 Hz), 8.13 (t, 1H, $J$ = 2.0 Hz), 8.23 (ddd, 1H, $J$ = 1.4, 2.0, 8.0 Hz).

$^{13}$C NMR (50 MHz, $CDCl_3$) δ 55.59 ($CH_3O$), 107.76, 112.81, 113.69, 118.08, 121.80, 128.60, 130.20, 130.35, 148.92, 153.47, 154.26, 160.75, 193.71 (C=S).

$^1$H NMR and $^{13}$C NMR data for thionocarbonate **7**

$^1$H NMR (200 MHz, $CDCl_3$) δ 7.17 (ddd, 1H, $J$ = 1.5, 2.2, 7.7 Hz), 7.28 (t, 1H, $J$ = 2.0 Hz), 7.36 (ddd, 1H, $J$ = 1.5, 2.1, 7.6 Hz), 7.42 (t, 1H, $J$ = 7.9 Hz), 7.59 (ddd, 1H, $J$ = 1.4, 2.2, 8.2 Hz), 7.66 (t, 1H, $J$ = 8.1 Hz), 8.13 (t, 1H, $J$ =2.1 Hz), 8.23 (ddd, 1H, $J$ = 1.4, 2.0, 7.9 Hz).

$^{13}$C NMR (50 MHz, $CDCl_3$) δ 118.00, 120.16, 121.90, 122.51, 127.46, 128.44, 130.39, 130.53, 135.12, 148.96, 153.39, 153.58, 193.35 (C=S).

$^1$H NMR and $^{13}$C NMR data for thionocarbonate **8**

$^1$H NMR (200 MHz, $CDCl_3$) δ 7.60 (ddd, 1H, $J$ = 1.35, 2.2, 8.0 Hz), 7.68 (dd, 1H, $J$ = 8.0 Hz), 8.16 (dd, 1H, $J$ = 2.1, 2.2 Hz), 8.25 (ddd, 1H, $J$ = 1.35, 2.1, 8.0 Hz).

$^{13}$C NMR (50 MHz, $CDCl_3$) δ 117.90, 122.08, 128.33, 130.53, 148.98 (C-3), 153.28 (C-1), 193.07 (C=S).