Supporting Information

Kinetics and Mechanism of the Anilinolysis of Dipropyl Chlorophosphate in Acetonitrile

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Product : (PrO)₂P(=O)NHC₆H₅





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1. Figure S2. The 13 C-NMR spectrum of (PrO)₂P(=O)NHC₆H₅.



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Figure S3. The ³¹P-NMR spectrum of (PrO)₂P(=O)NHC₆H₅.



Product : (PrO)₂P(=O)NHC₆H₅

Figure S4. The GC-MS spectrum of (PrO)₂P(=O)NHC₆H₅.

Temp. / °C	$k_{\rm H} imes 10^3 \ /{ m M}^{-1} \ { m s}^{-1}$	ΔH^{\neq} /kcal mol ⁻¹	$-\Delta S^{\neq}/\text{cal mol}^{-1} \text{ K}^{-1}$
45.0	1.50 ± 0.01		
55.0	2.12 ± 0.01	6.3 ± 0.1^{b}	52 ± 1^{c}
65.0	2.88 ± 0.01		

Table S1. Activation Parameters^a for the Reactions of Dipropyl Chlorophosphate with C₆H₅NH₂ in MeCN at 55.0 °C

^{*a*}Calculated by Eyring equation. ^{*b,c*}Standard deviation.



Figure S5. A plot of log ($k_{\rm H}/T$) vs. 1/T for the reactions of dipropyl chlorophosphate with aniline in MeCN.