AN IMPROVED SYNTHESIS OF 4-CHLORO-7H-PYRROLO[2,3-D]PYRIMIDINE

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SUPPLEMENTARY INFORMATION

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¹H NMR of compound 2
$^1$H NMR of compound 3

$^{13}$C NMR compound 3
**1H NMR of compound 4**

![1H NMR spectrum of compound 4](image)

**13C NMR of compound 4**

![13C NMR spectrum of compound 4](image)
$^1$H NMR of compound 5

$^{13}$C NMR of compound 5
IR of compound 5

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

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

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