

## Supplementary spectra of the compounds synthesized

The compounds synthesized in the course of this study were characterized using various spectroscopic methods including NMR and UV-Vis. Presented herein are the spectra of the synthesized compounds with the description given above each spectra

Figure 1:  $^1\text{H}$ -NMR spectrum (400 MHz,  $\text{CDCl}_3$  and  $\text{MeOD-}d_4$ ) of 2,7-dichloroquinoline-3-carbaldehyde (**4**).

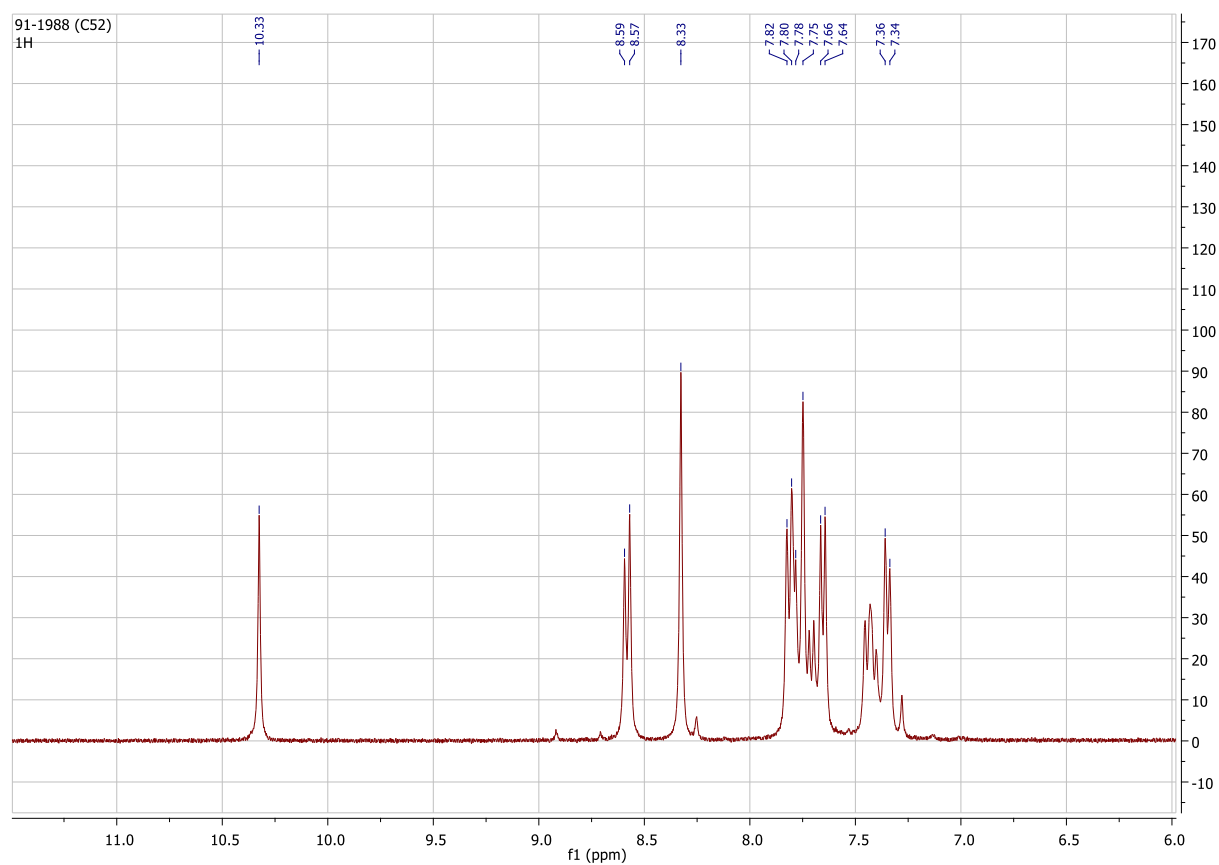


Figure 2:  $^1\text{H}$ -NMR spectrum (400 MHz,  $\text{CDCl}_3$  and  $\text{MeOD-}d_4$ ) of 2,7-dichloroquinoline-3-carbonitrile (**5**).

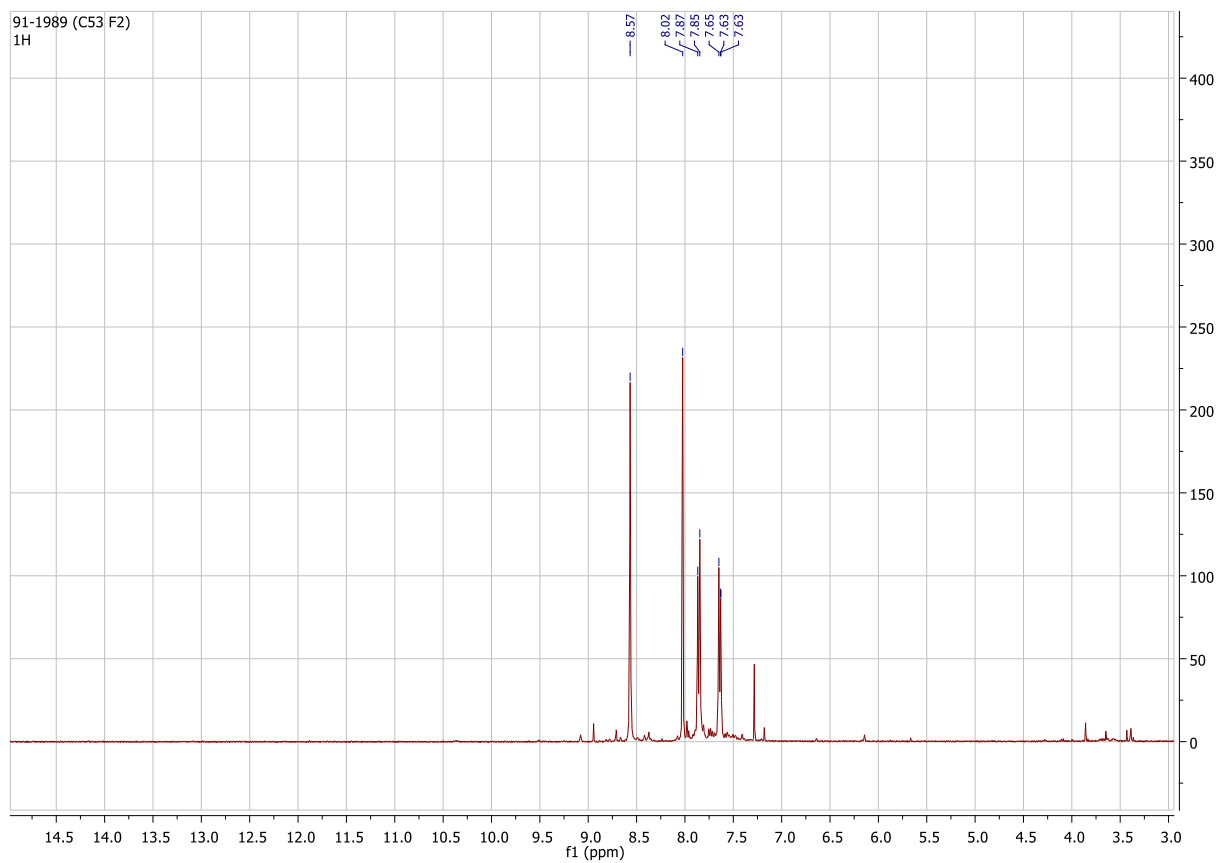


Figure 3:  $^{13}\text{C}$ -NMR spectrum (100 MHz,  $\text{CDCl}_3$  and  $\text{MeOD-}d_4$ ) of 2,7-dichloroquinoline-3-carbonitrile (**5**).

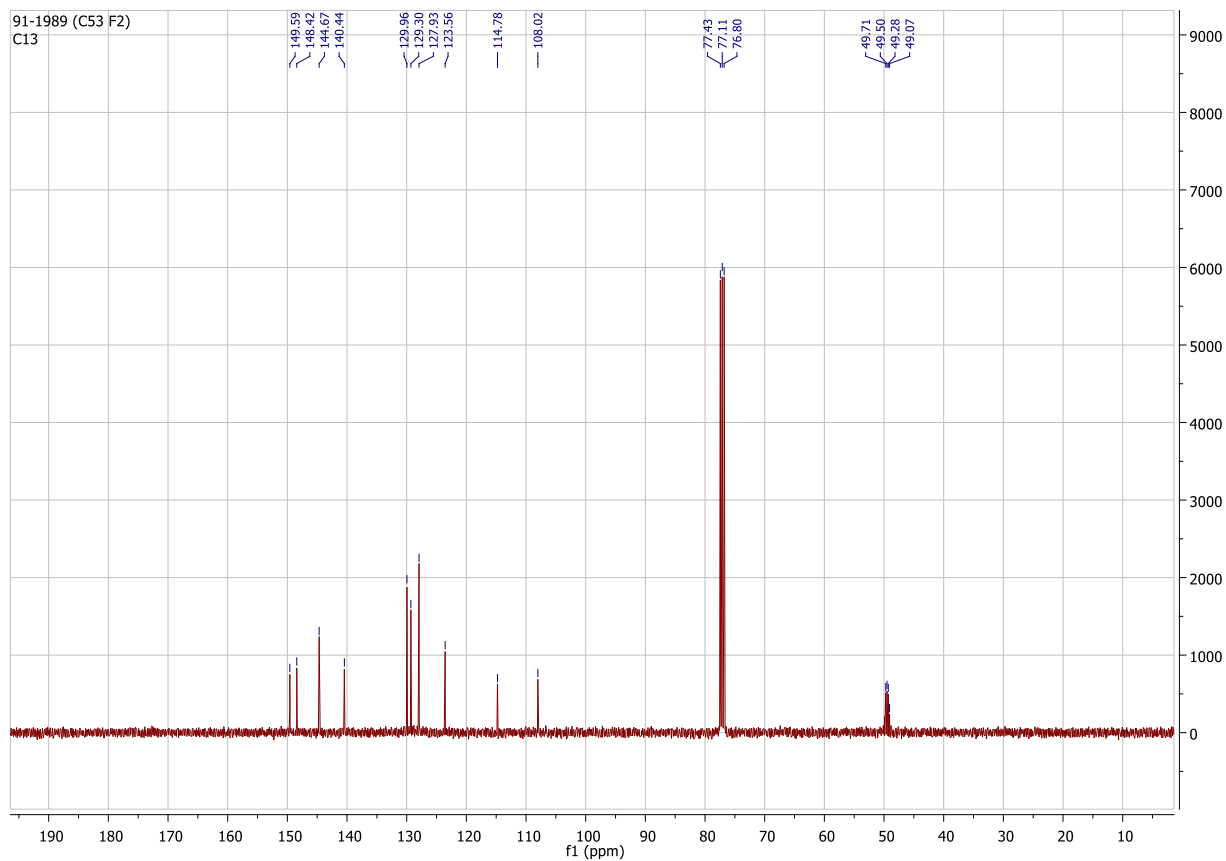


Figure 4:  $^1\text{H}$ -NMR spectrum (400 MHz,  $\text{DMSO-}d_6$ ) of 2,7-dichloroquinoline-3-carbamide (**6**).

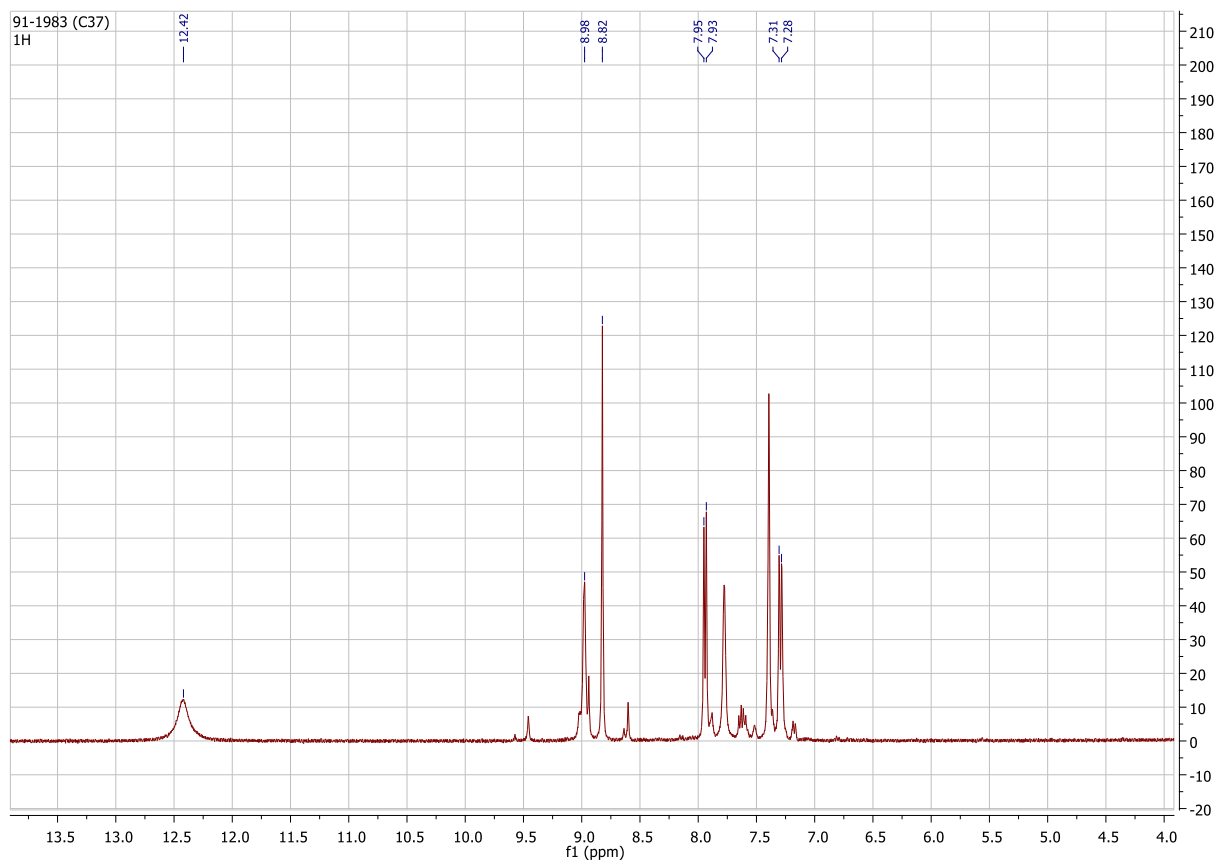


Figure 5:  $^{13}\text{C}$ -NMR spectrum (100 MHz,  $\text{DMSO-}d_6$ ) of 2,7-dichloroquinoline-3-carbamide (**6**).

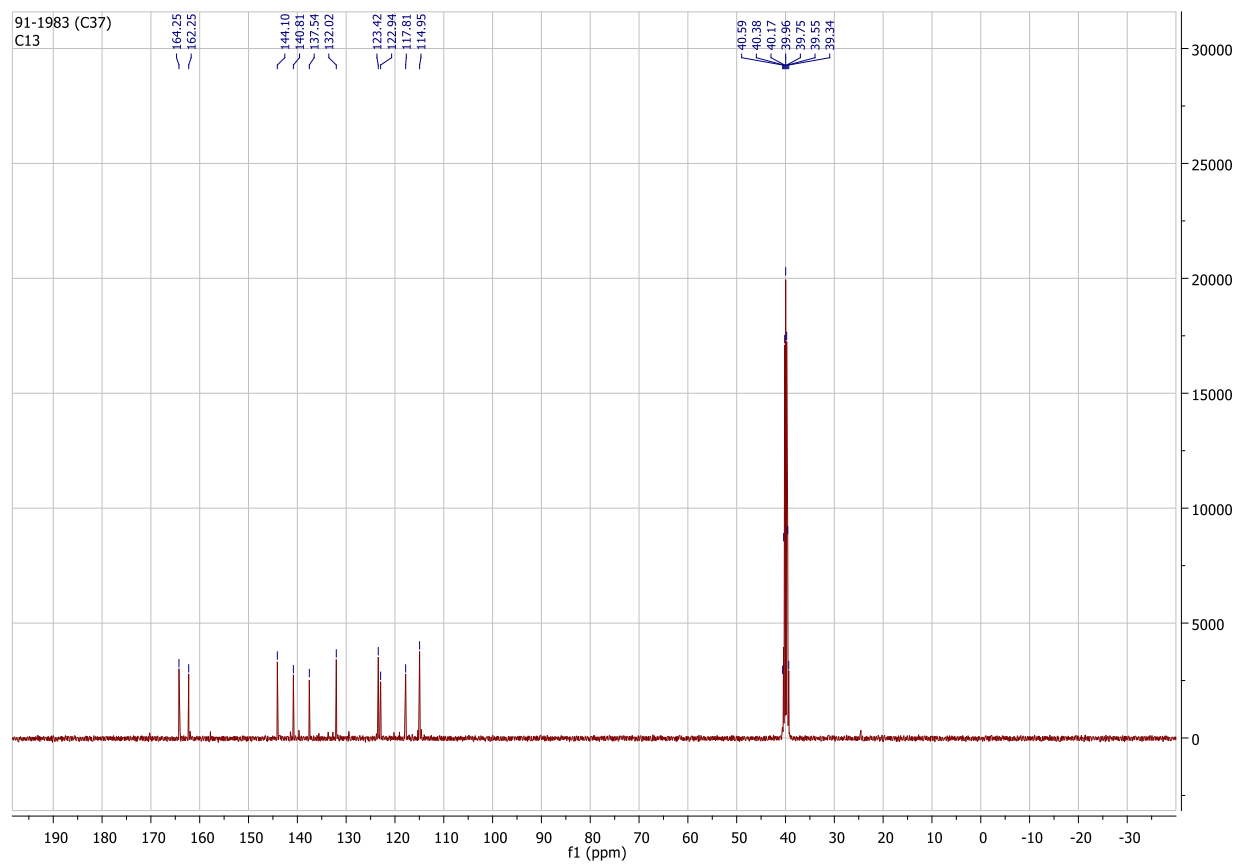


Figure 6:  $^1\text{H-NMR}$  spectrum (400 MHz,  $\text{CDCl}_3$ ) of 7-chloro-2-ethoxyquinoline-3-carbaldehyde (**8**).

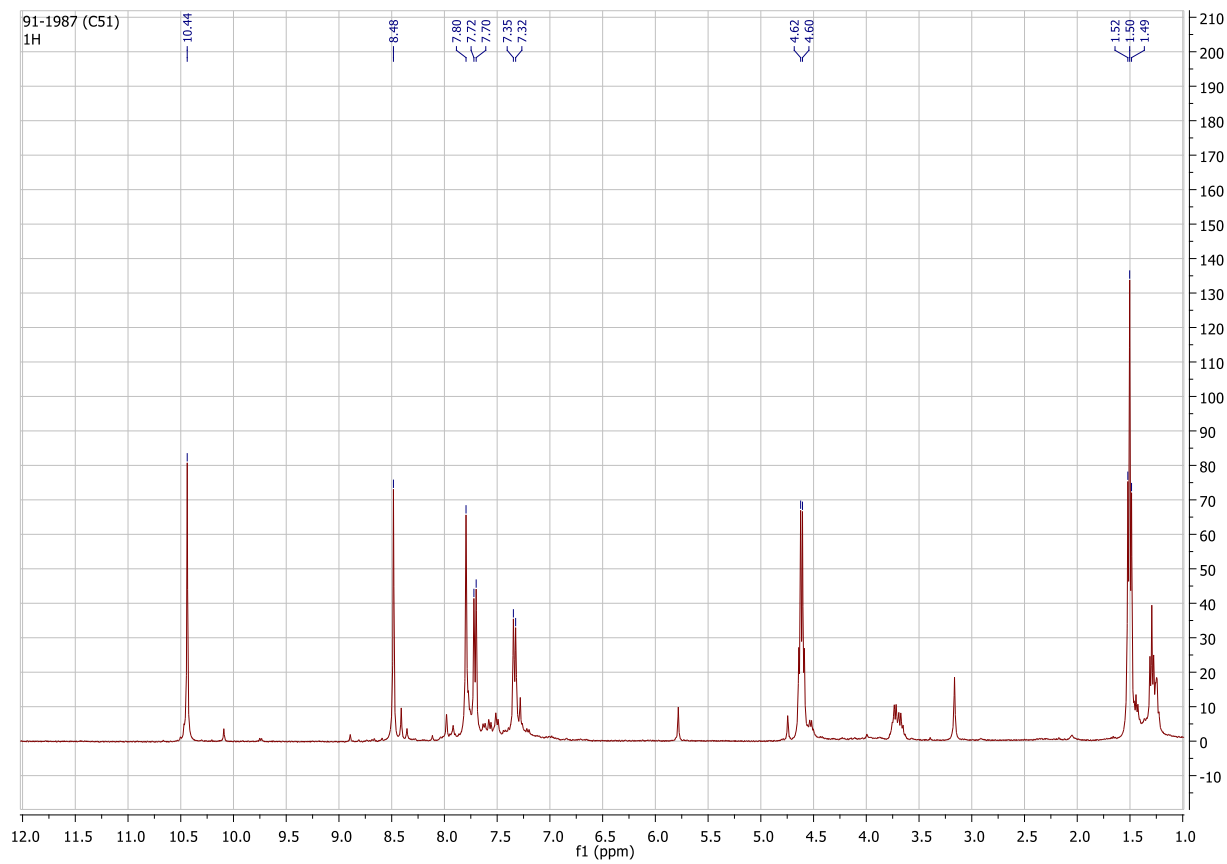


Figure 7:  $^{13}\text{C}$ -NMR spectrum (100 MHz,  $\text{CDCl}_3$ ) of 7-chloro-2-ethoxyquinoline-3-carbaldehyde (8).

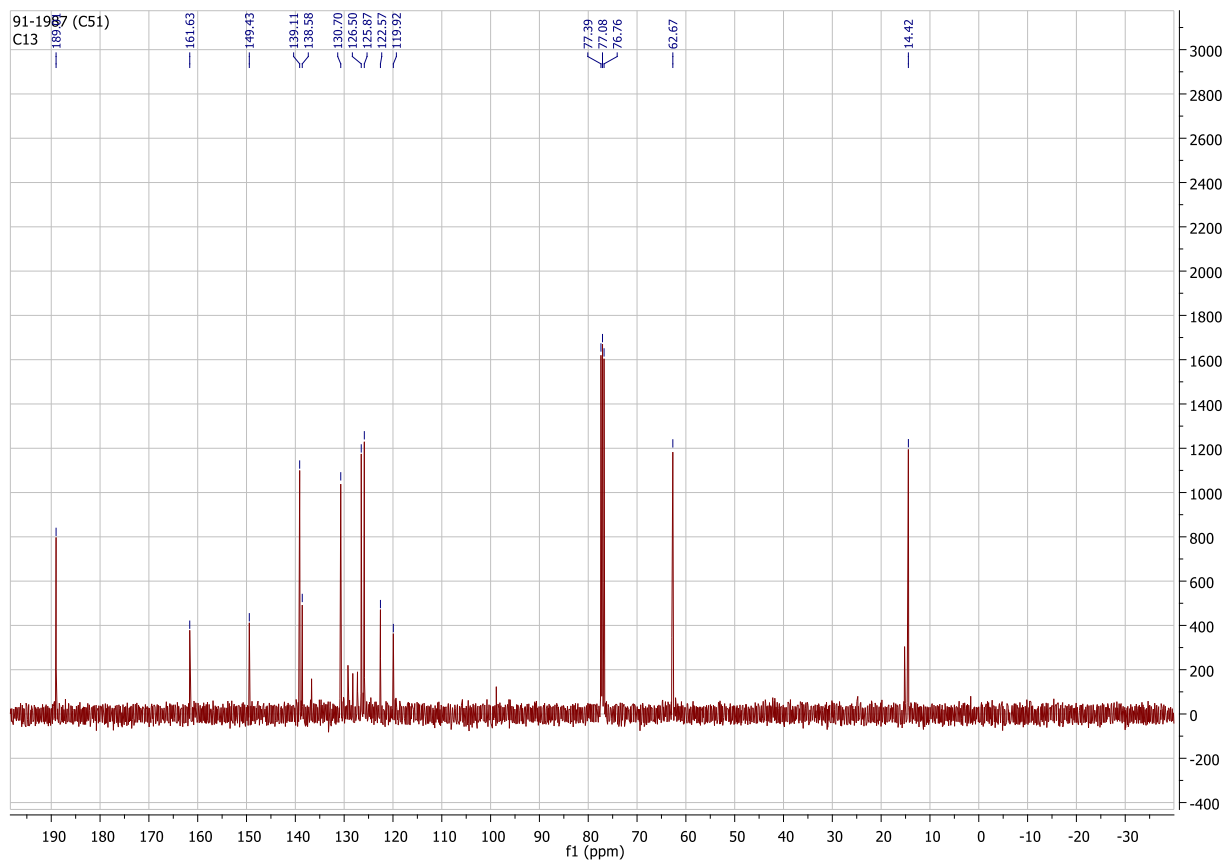


Figure 8:  $^1\text{H-NMR}$  spectrum (400 MHz,  $\text{CDCl}_3$ ) of 2-chloroquinoline-3-carbonitrile (**12**).

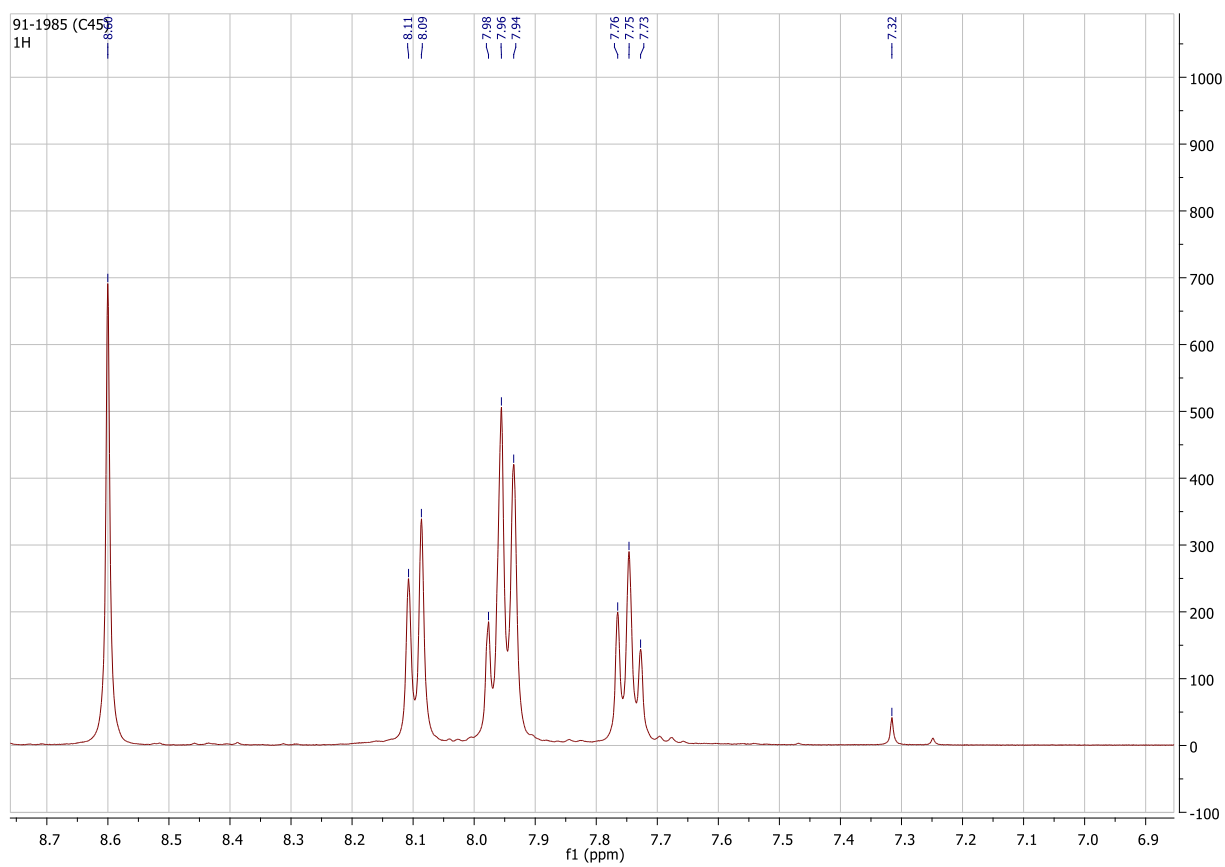




Figure 9:  $^{13}\text{C}$ -NMR spectrum (100 MHz,  $\text{CDCl}_3$ ) of 2-chloroquinoline-3-carbonitrile (**12**).

