

A synthesis, characterization and catalytic application of CNT aerogels for conversion of β -nitrostyrenes to arylhydrazones

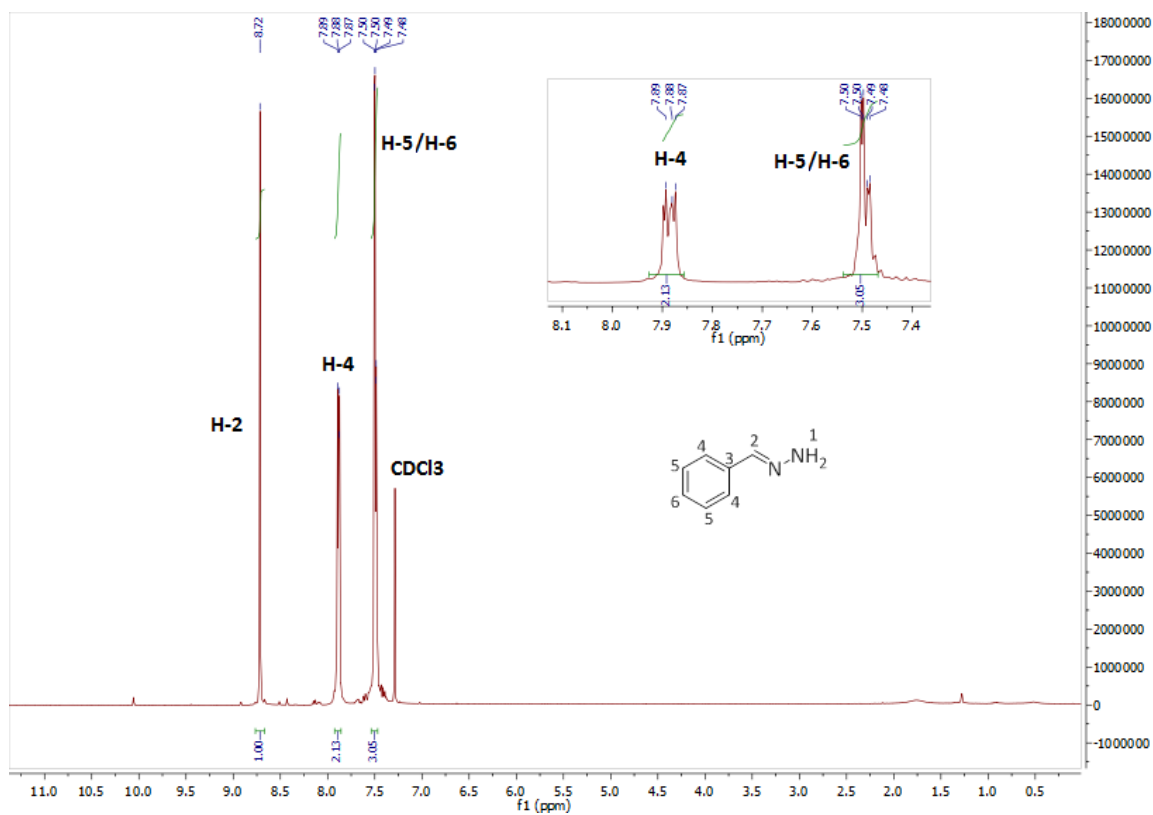
Hossein Tavakol and Reza Goodarzi

Department of Chemistry, Isfahan university of technology, Isfahan 84156-83111, Iran. Tell (Fax): +98-31-33913241

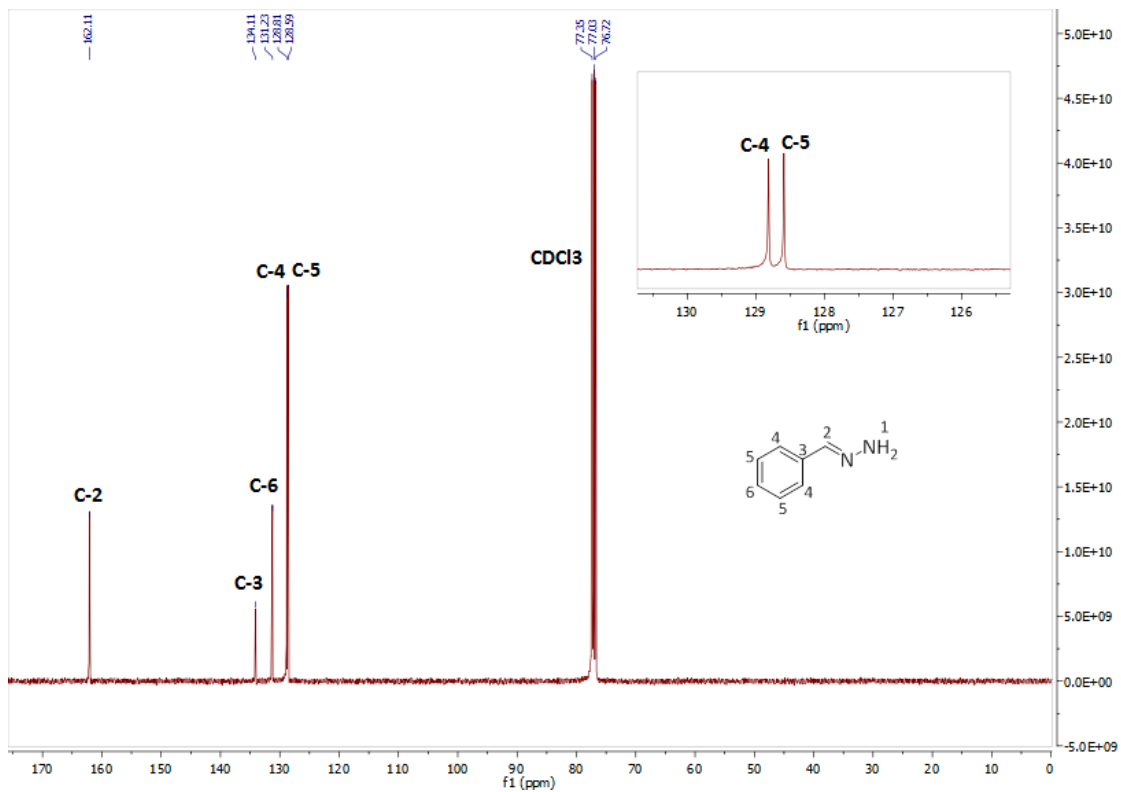
E-mail: h_tavakol@iut.ac.ir

All original spectral data for the products
Benzylidenehydrazine (2a)

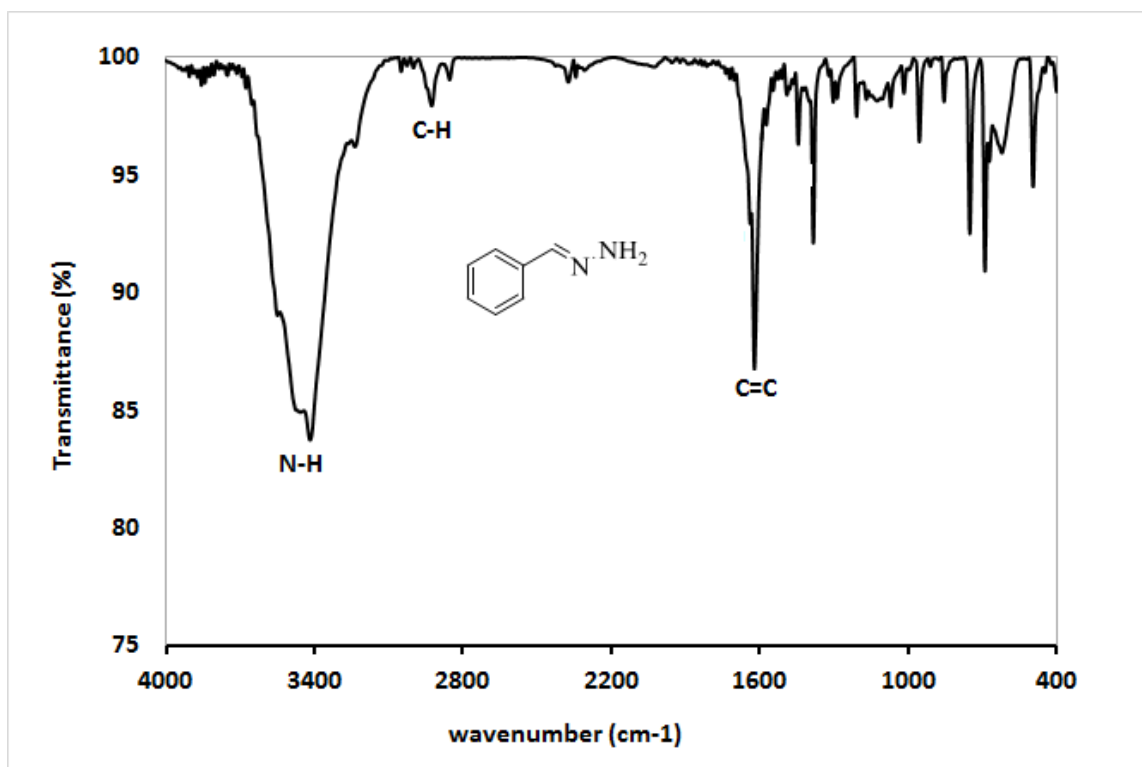
^1H NMR in CDCl_3



^{13}C NMR in CDCl_3

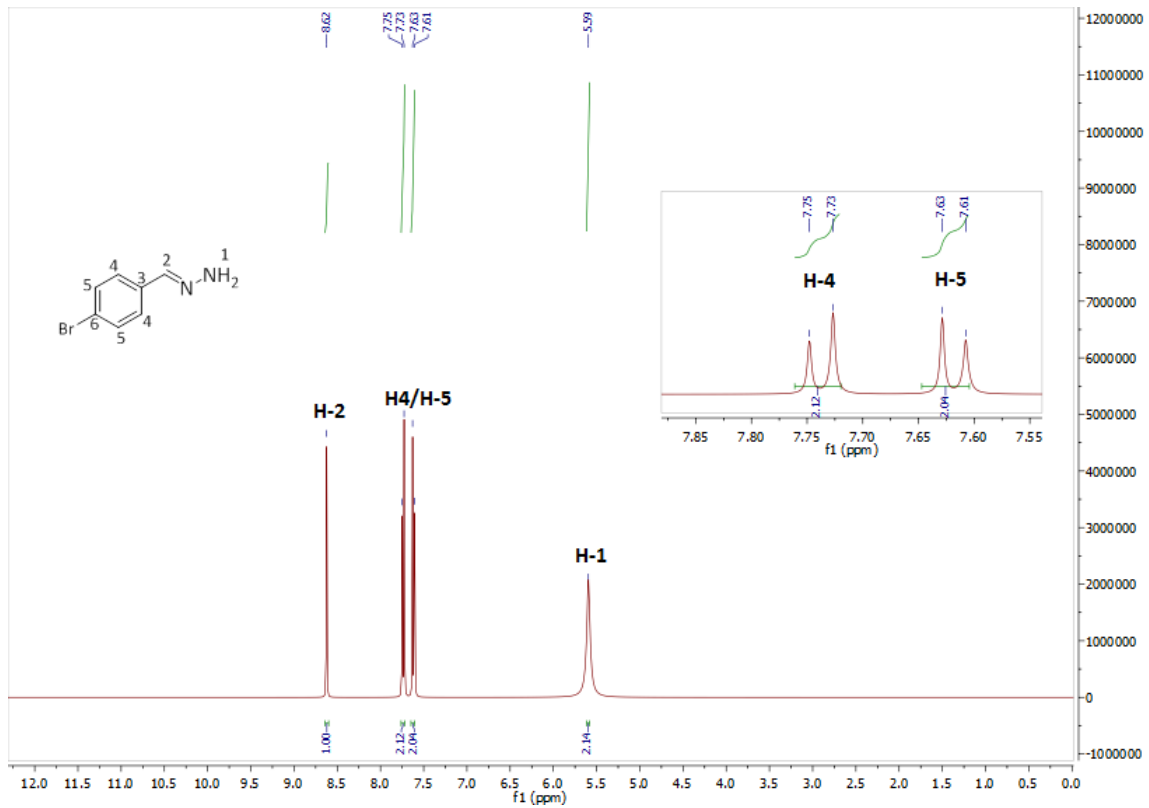


FT-IR Spectrum

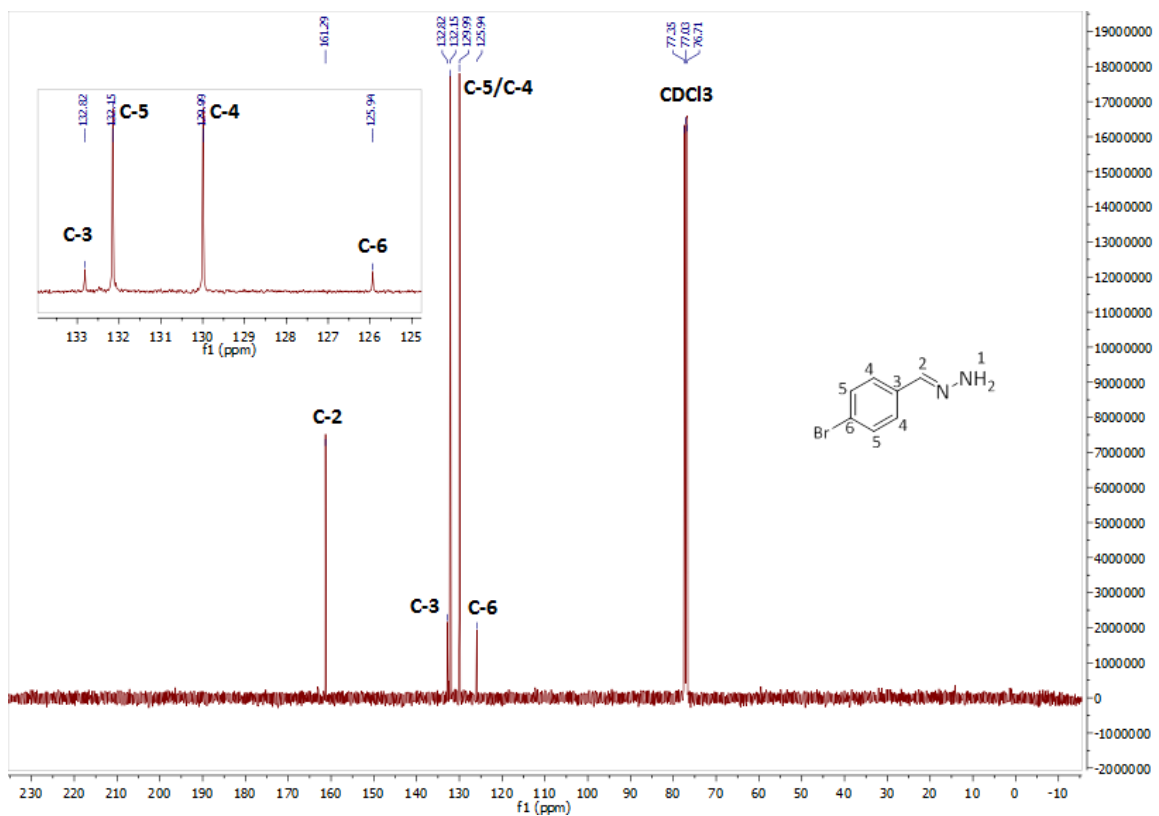


4-BromoBenzylidenedrazine (2b)

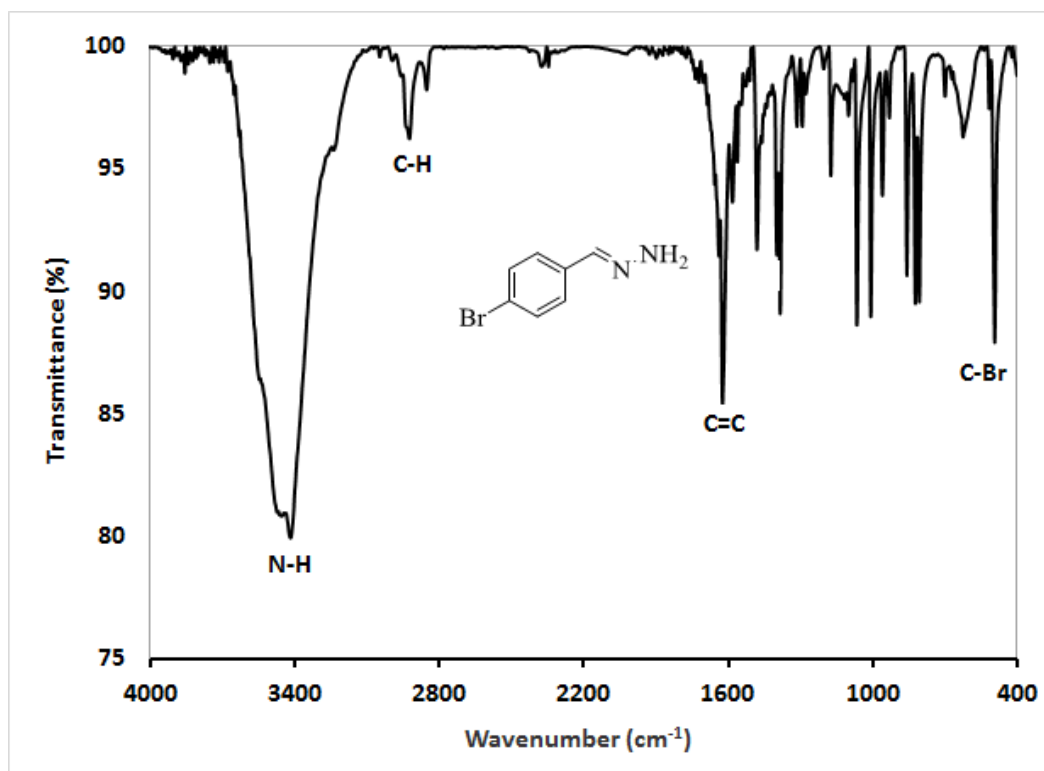
^1H NMR in CDCl_3



^{13}C NMR in CDCl_3

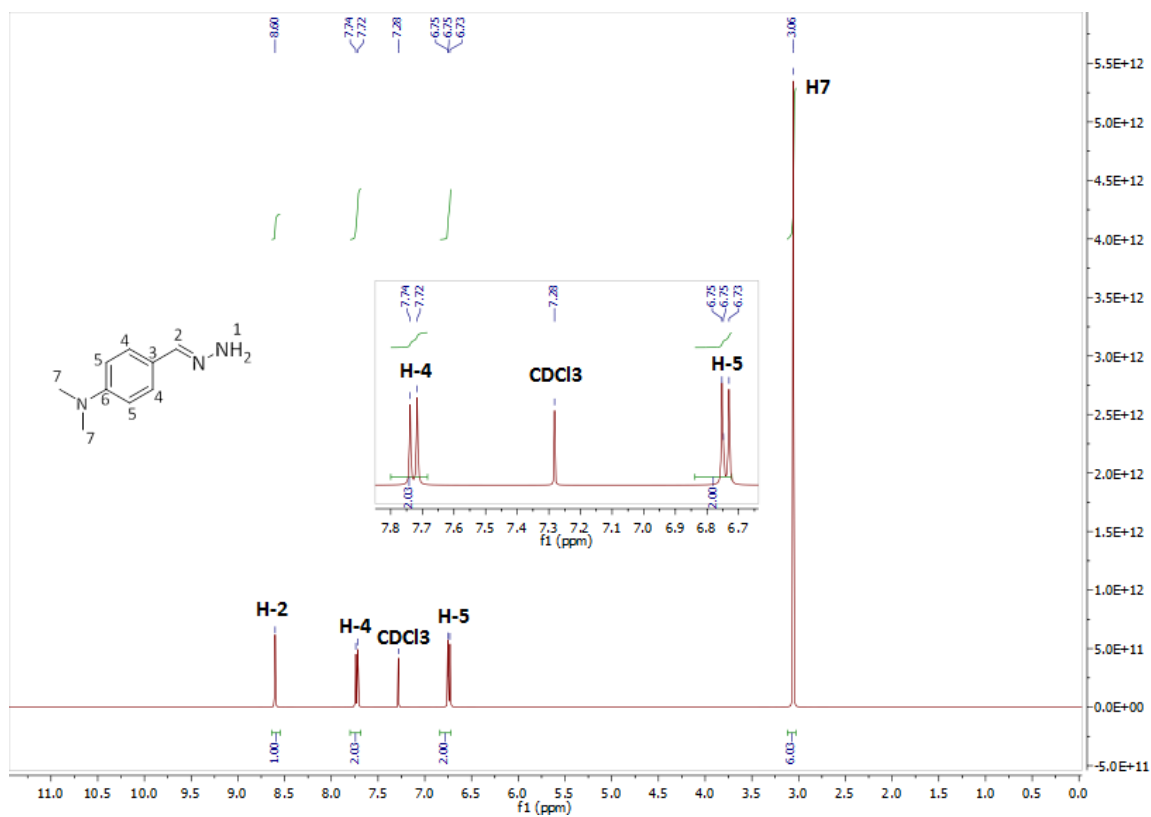


FT-IR Spectrum

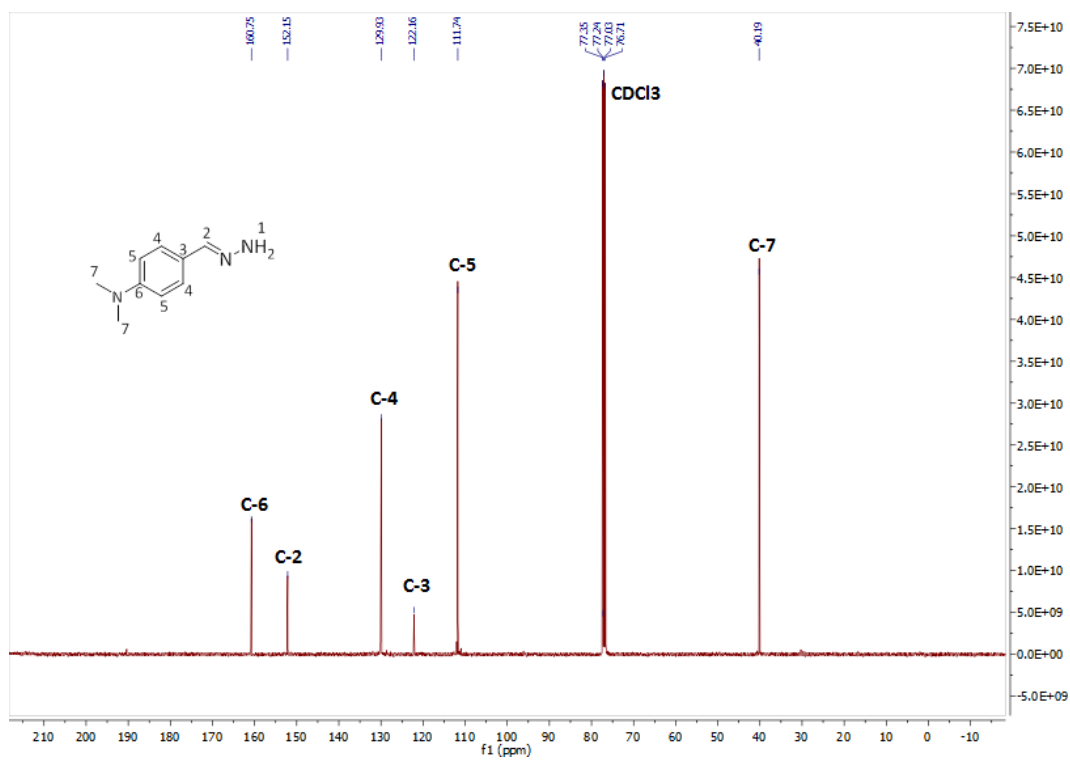


N,N-dimethylbenzylidenehydrazine (2c)

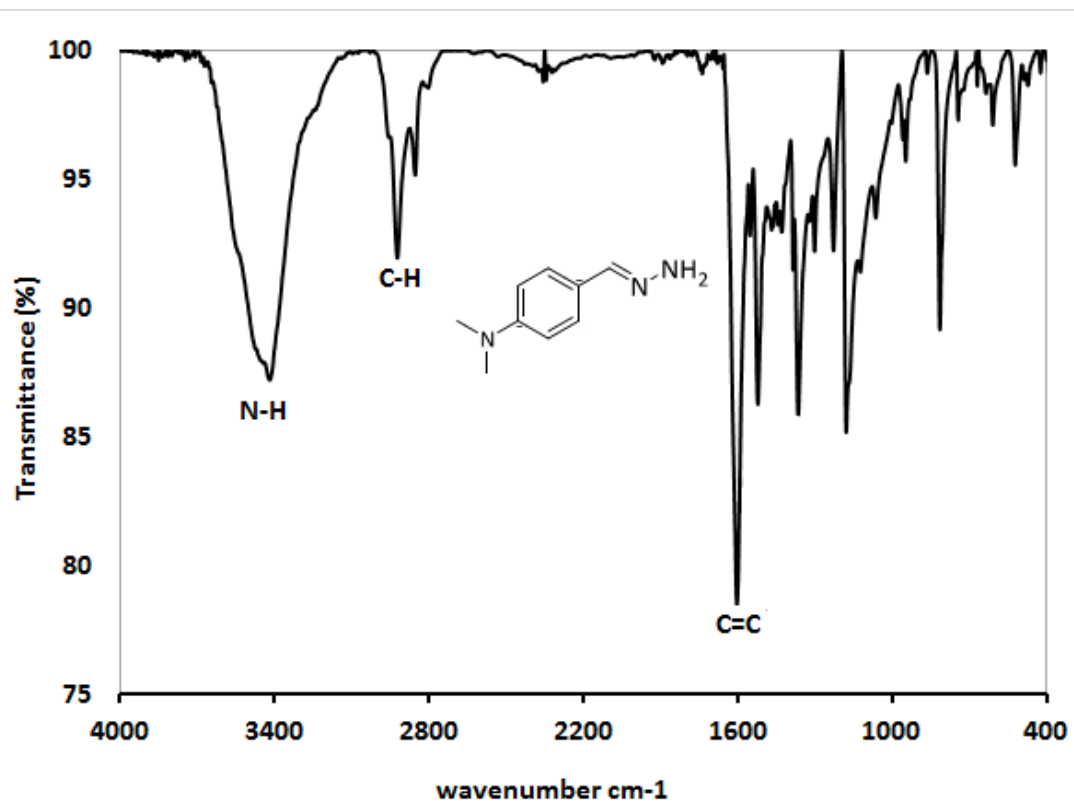
^1H NMR in CDCl_3



^{13}C NMR in CDCl_3

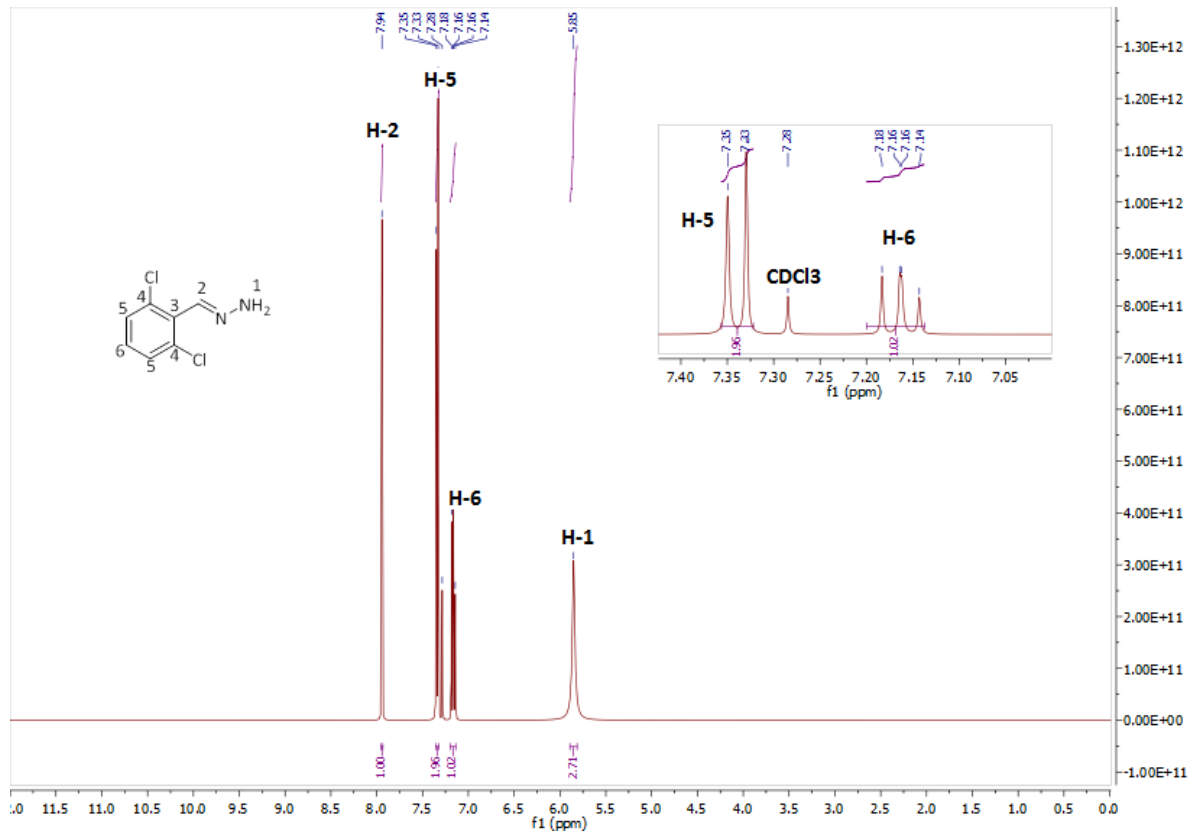


FT-IR Spectrum

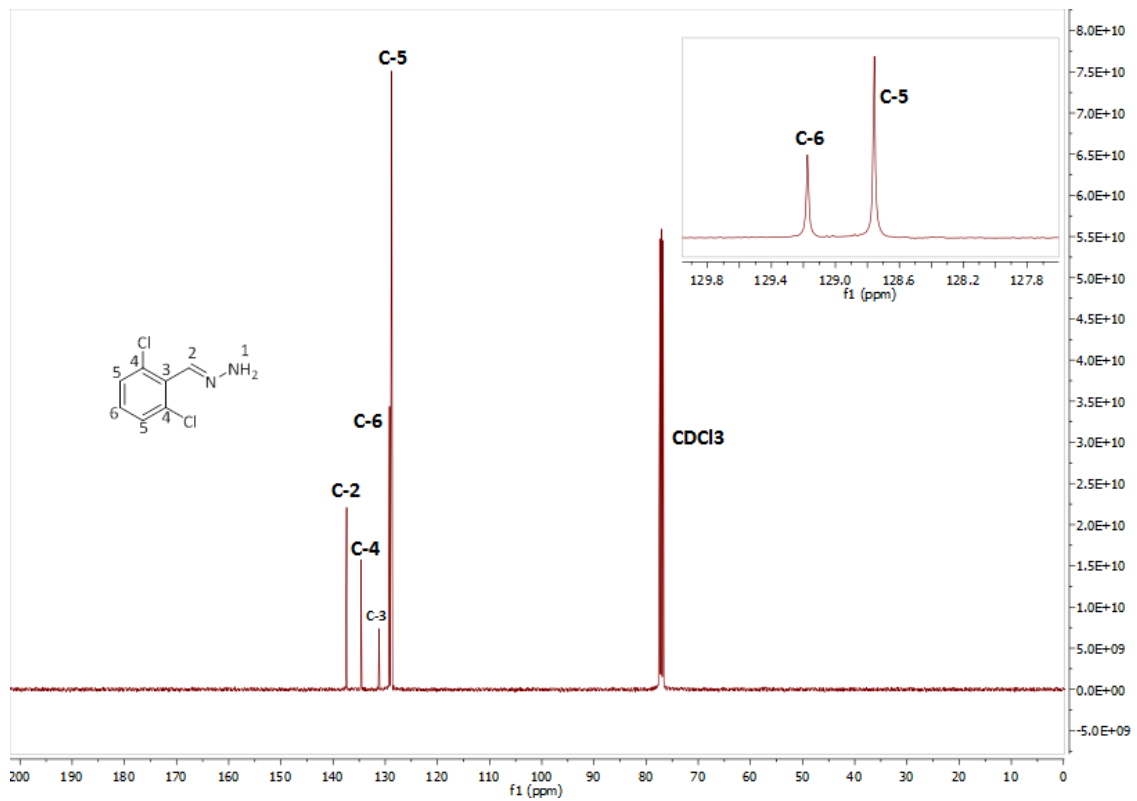


2,6-dichlorobenzylidenehydrazine (2e)

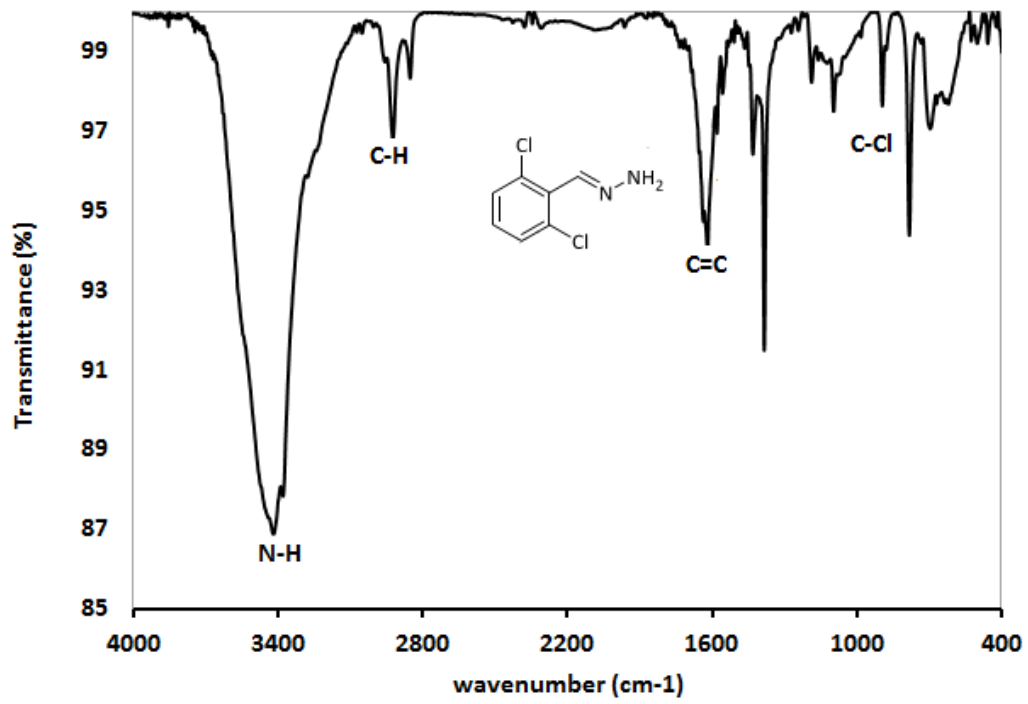
^1H NMR in CDCl_3



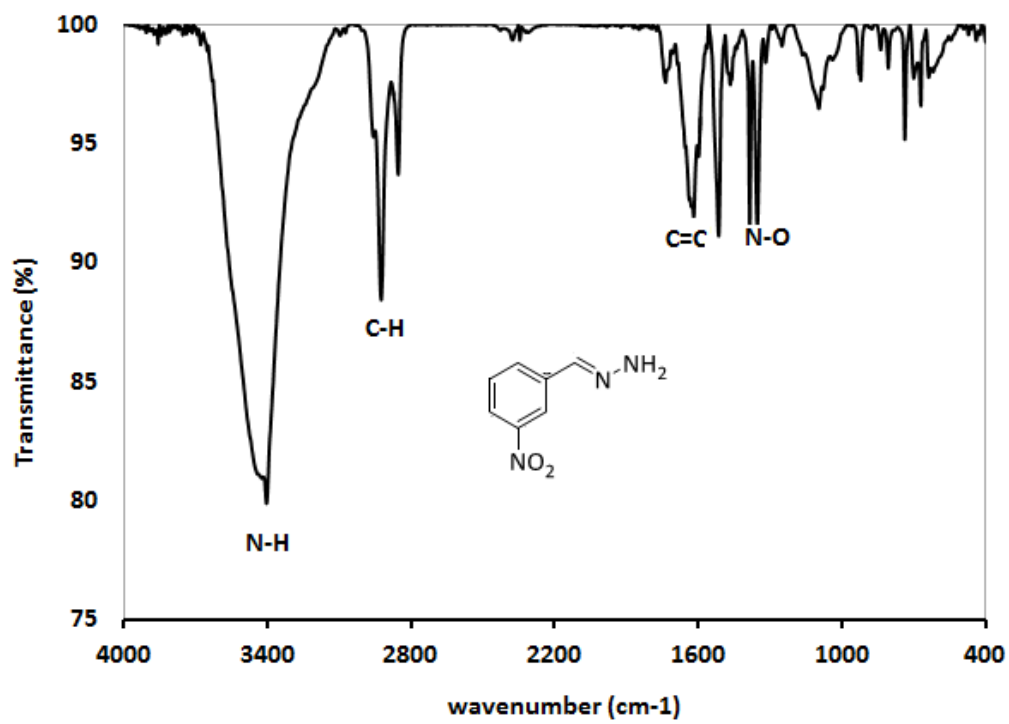
^{13}C NMR in CDCl_3



FT-IR Spectrum

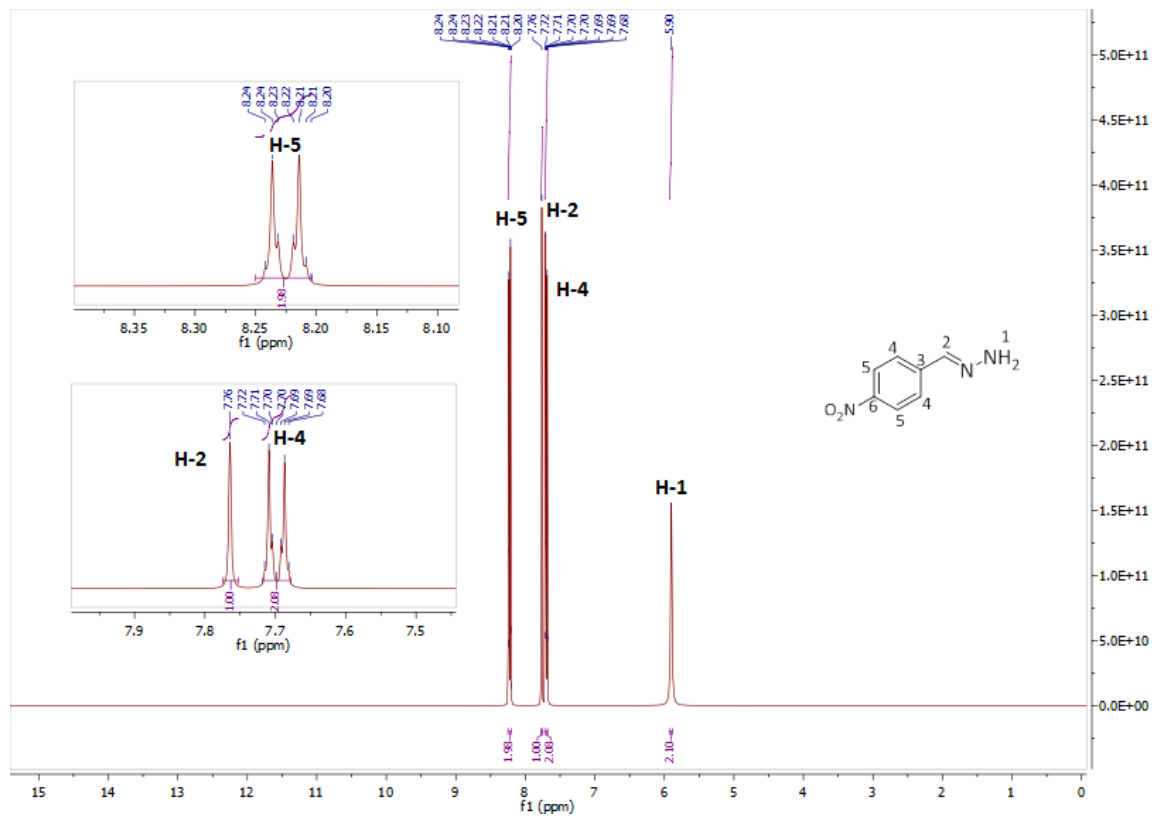


FT-IR Spectrum

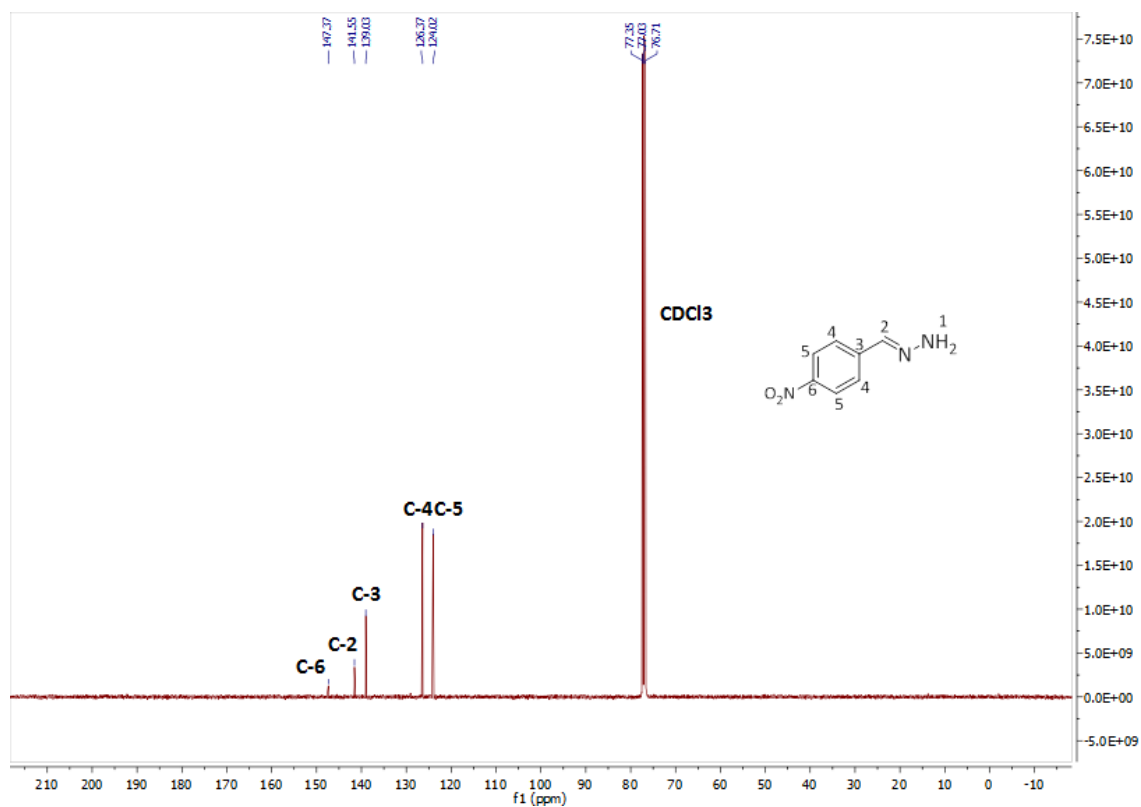


4-Nitrobenzylidenehydrazine (2g)

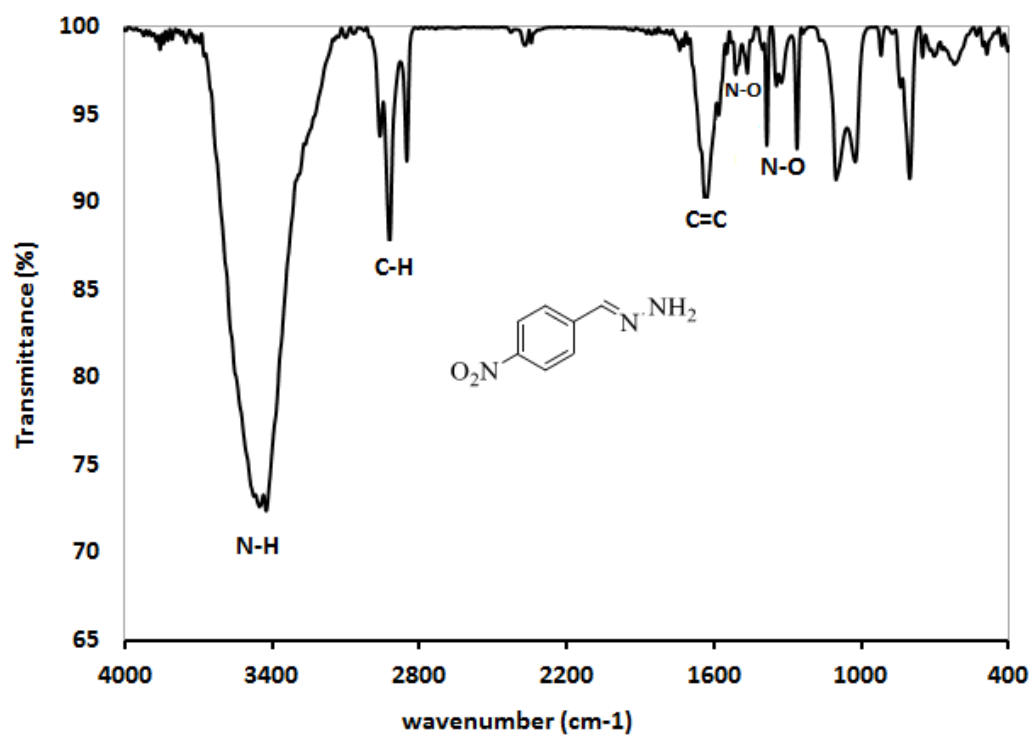
¹H NMR in CDCl₃



¹³C NMR in CDCl₃

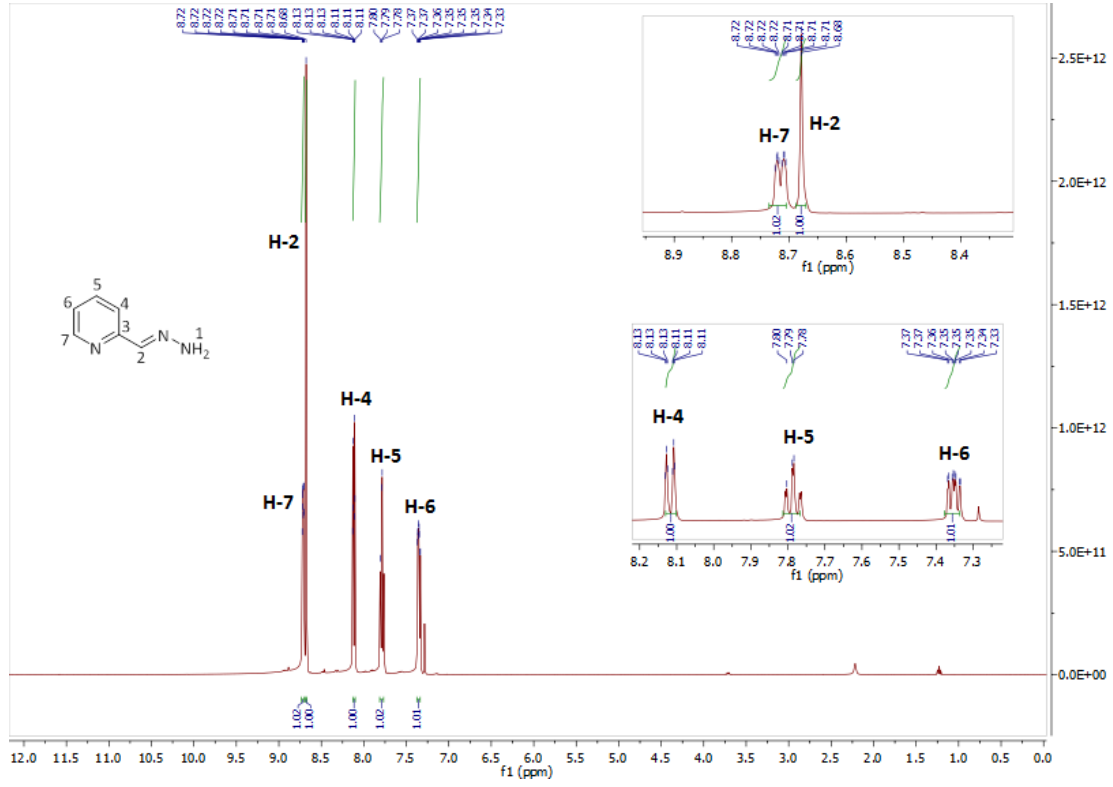


FT-IR Spectrum

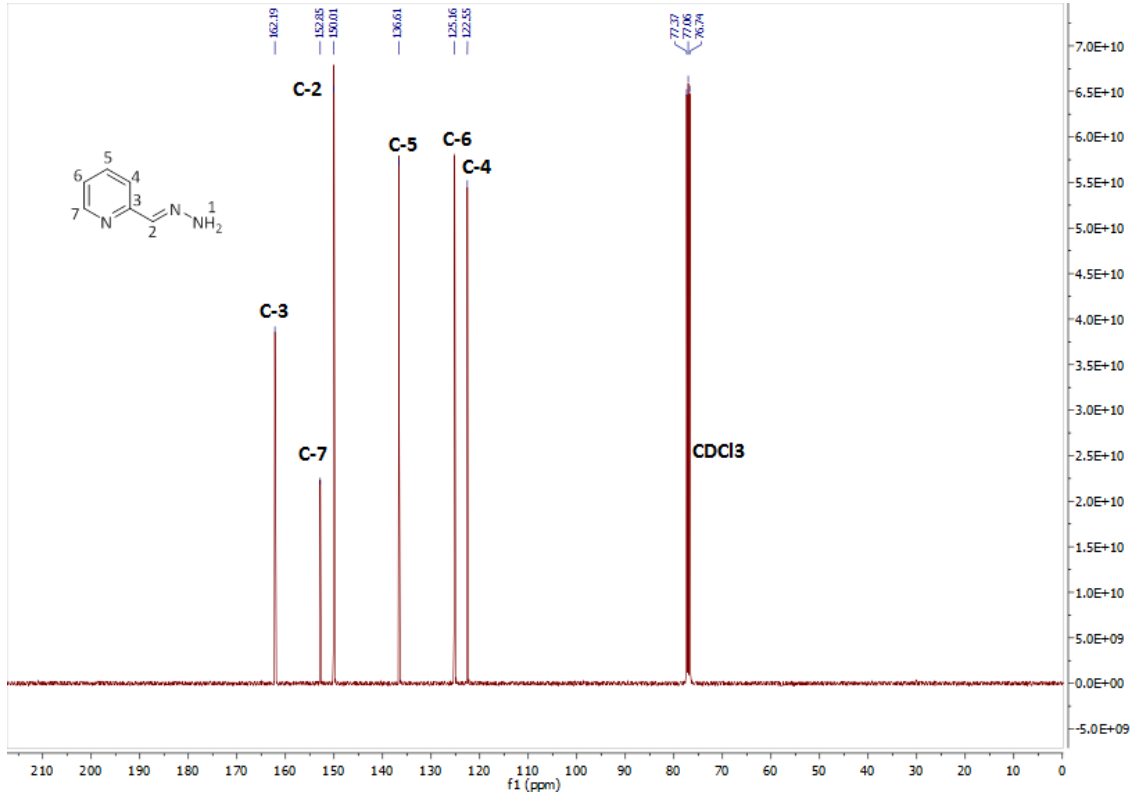


pyridin-2-ylmethylene-hydrazine (2h)

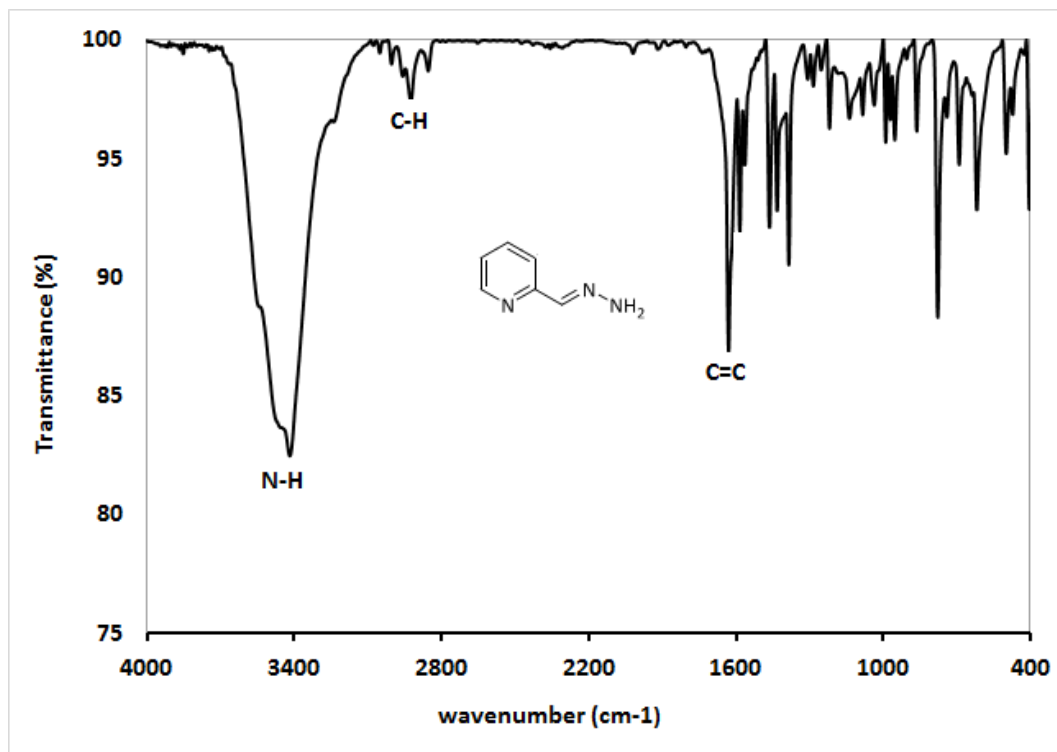
¹H NMR in CDCl₃



¹³C NMR in CDCl₃

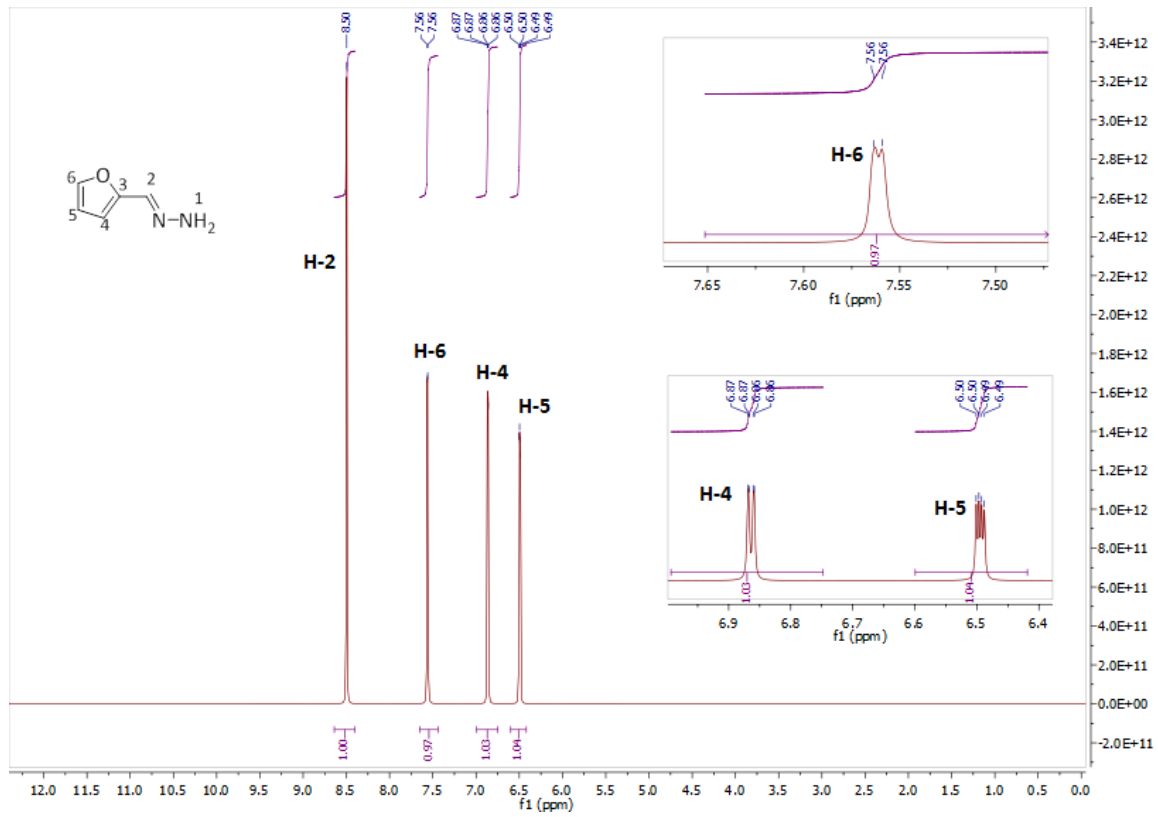


FT-IR Spectrum

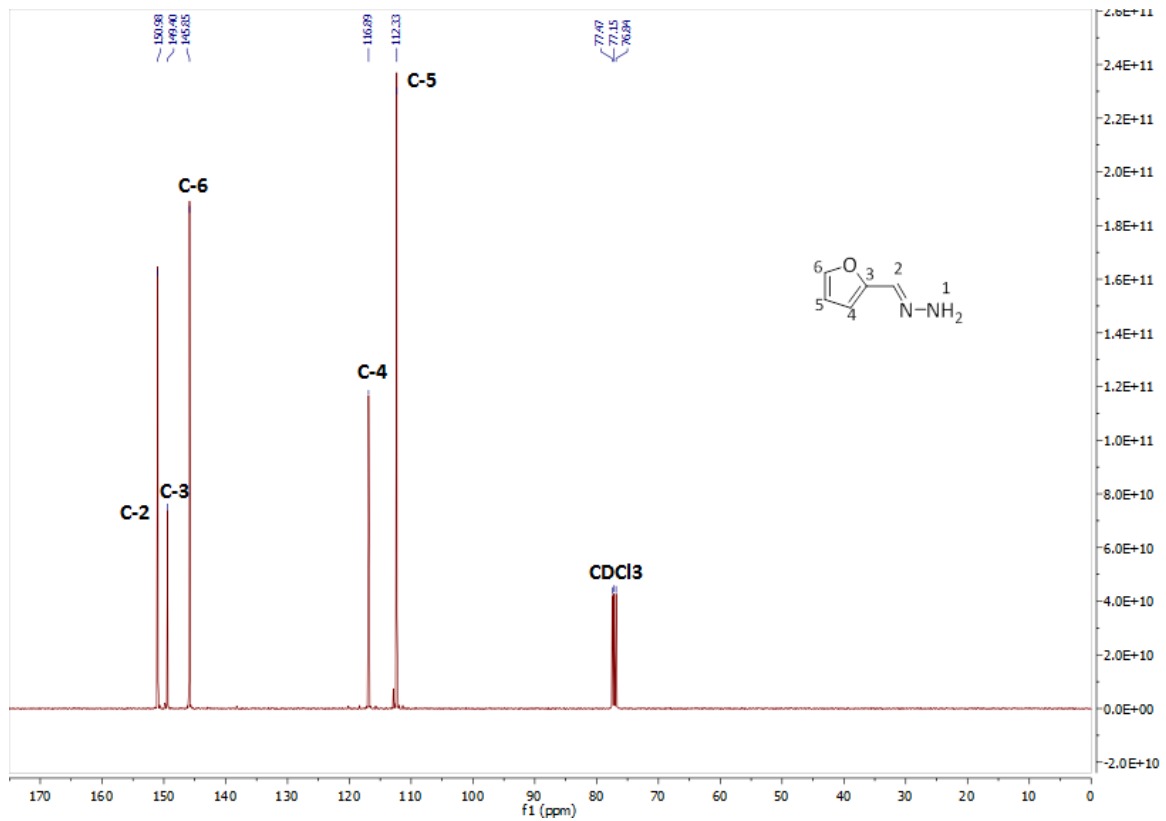


Furan-2-ylmethylenhydrazine (2i)

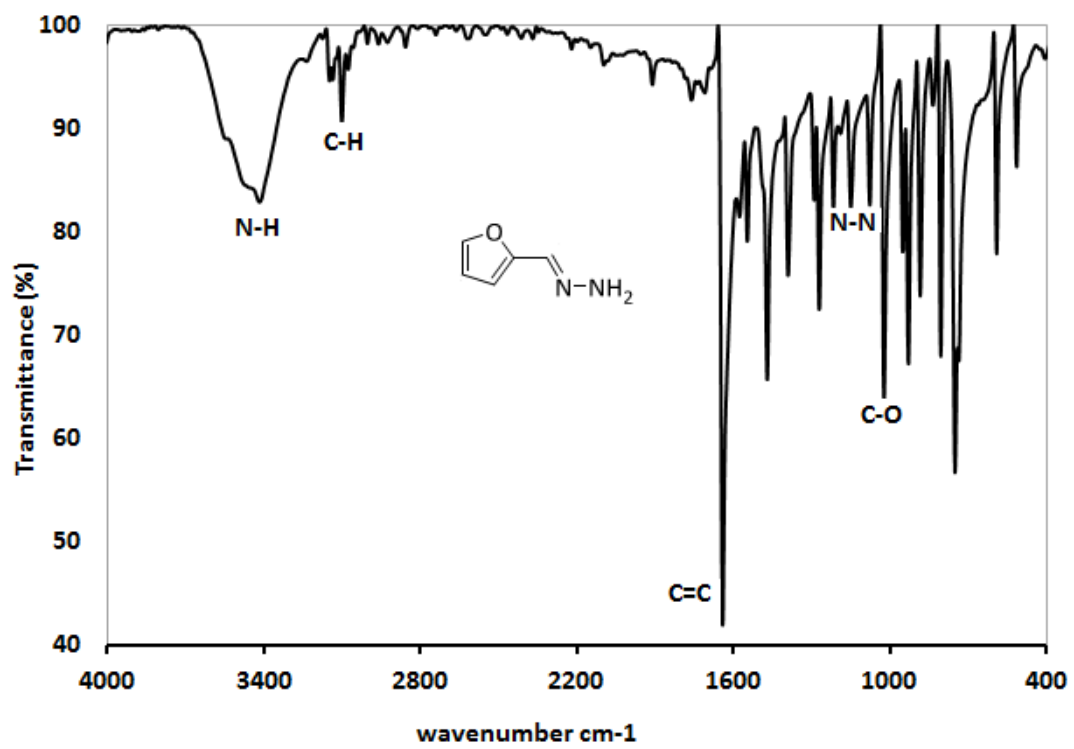
¹H NMR in CDCl₃



¹³C NMR in CDCl₃

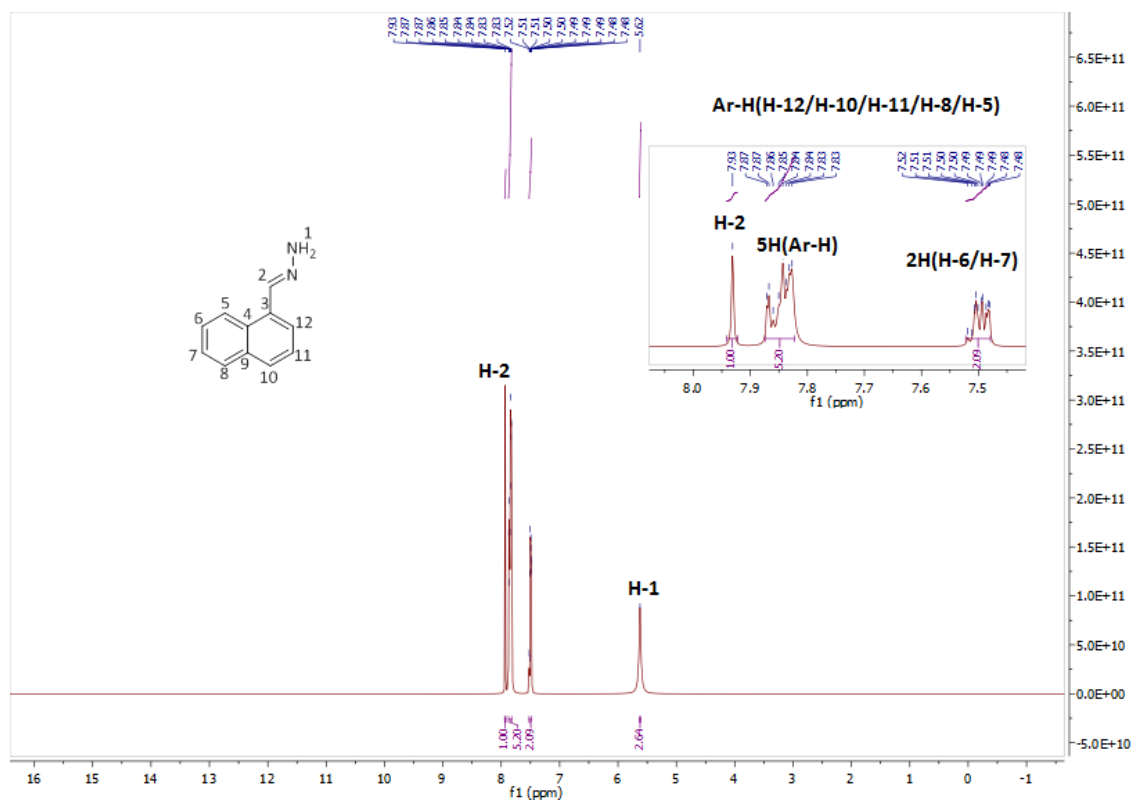


FT-IR Spectrum

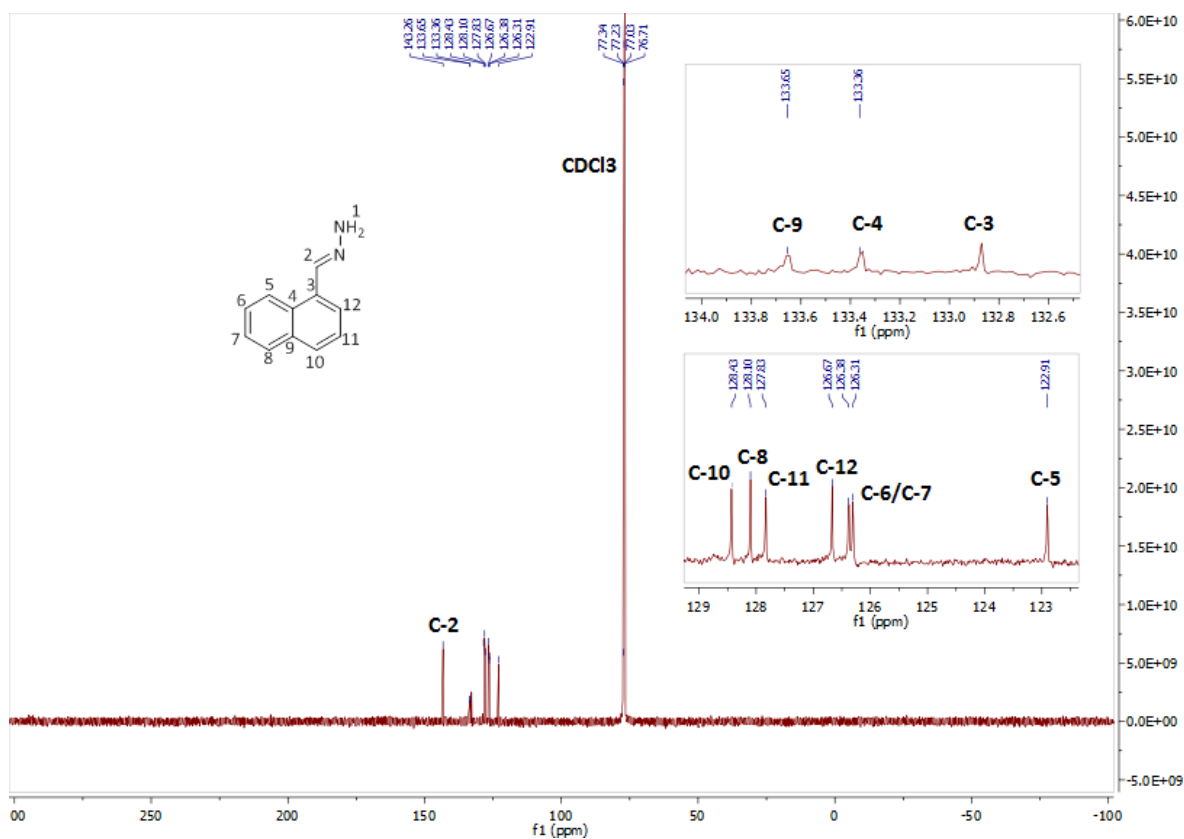


Naphthalene-1-ylmethylenhydrazine (2j)

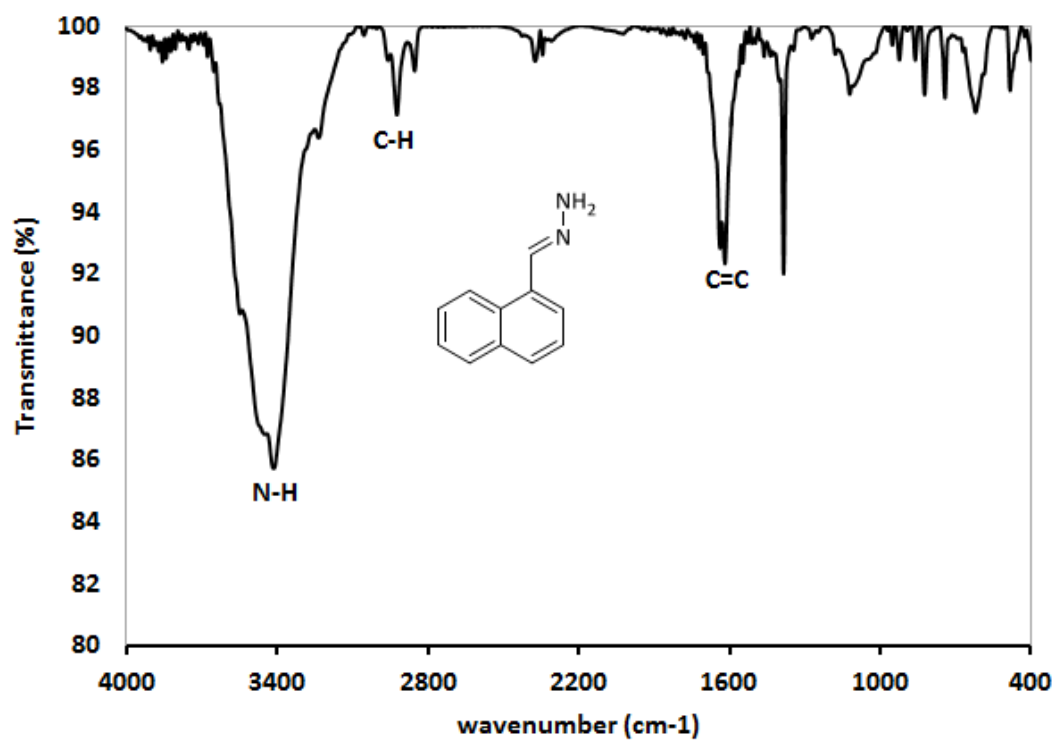
^1H NMR in CDCl_3



^{13}C NMR in CDCl_3

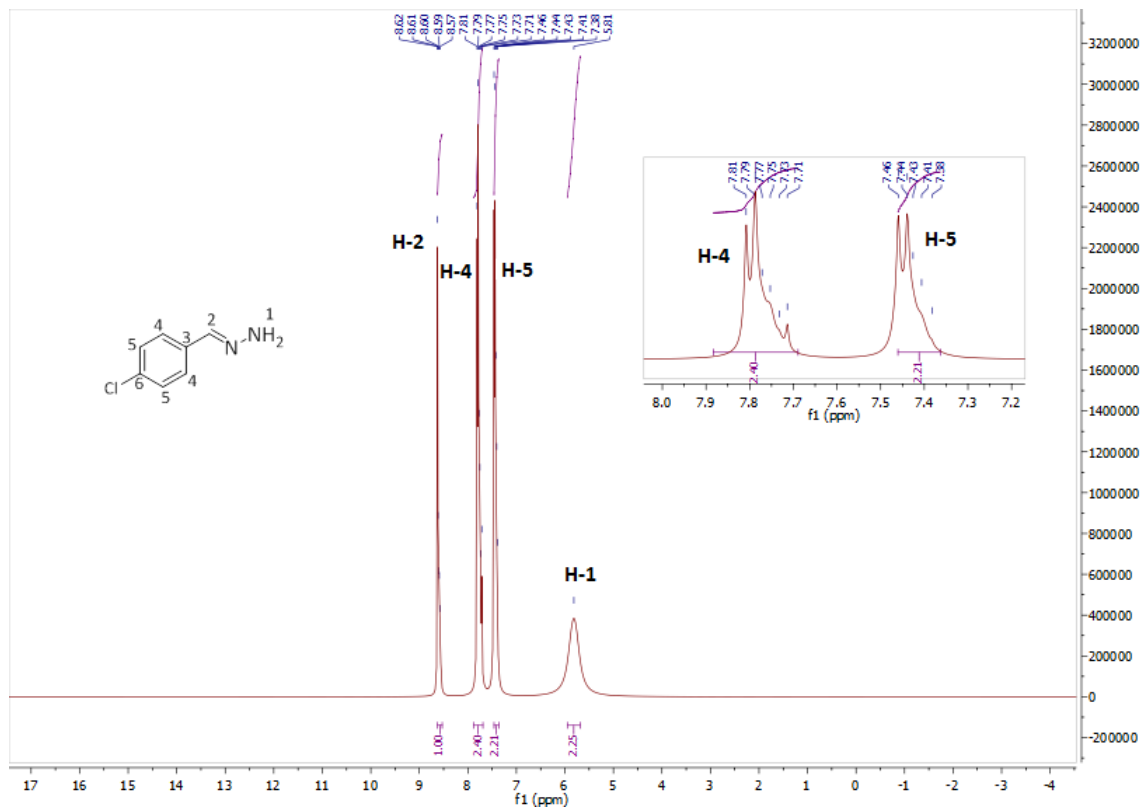


FT-IR Spectrum

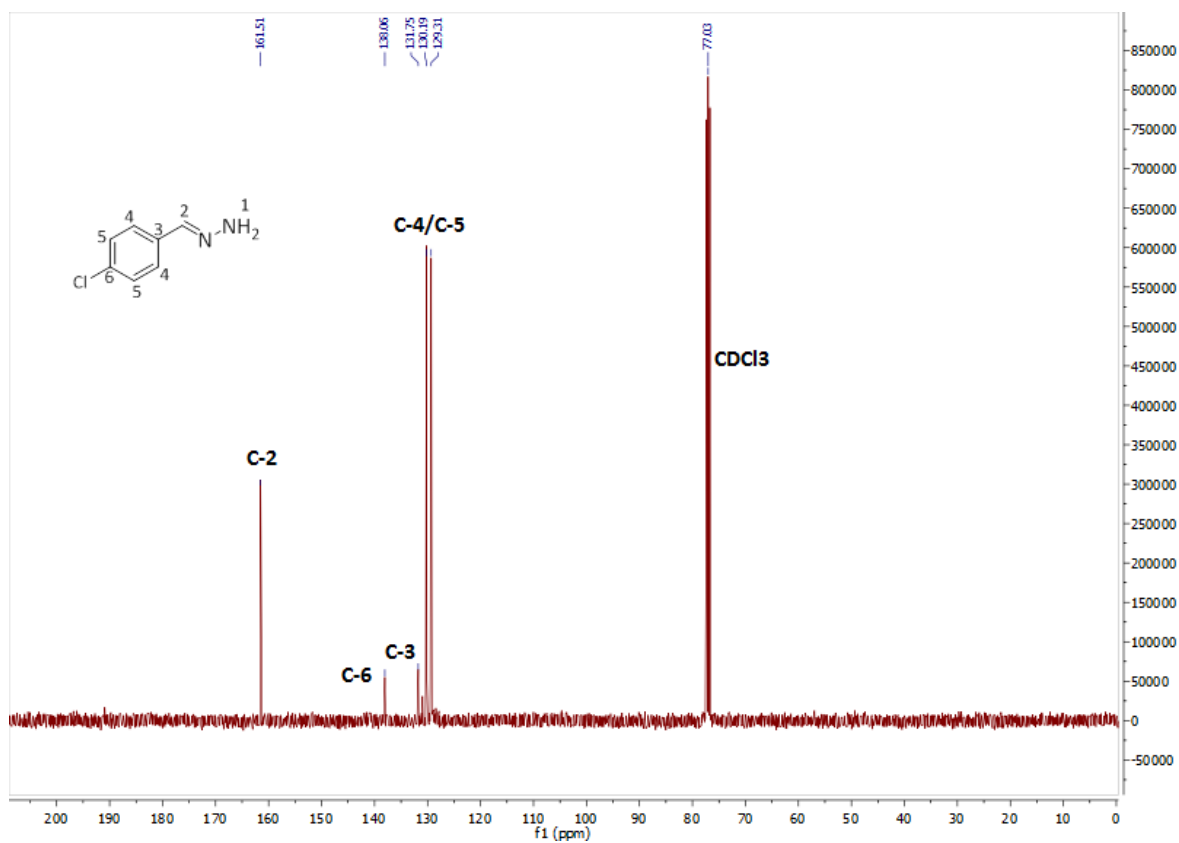


4-Chlorobenzylidene)hydrazine (2k)

¹H NMR in CDCl₃



¹³C NMR in CDCl₃



FT-IR Spectrum

