Microwave assisted synthesis, crystal structure and Hirshfeld surface analysis of some 2-formimidate-3-carbonitrile derivatives bearing 4H-pyran and dihydropyridine moieties

Sizwe J. Zamisa† and Bernard Omondi†

†School of Chemistry and Physics, University of KwaZulu-Natal, Private Bag X54001, Durban, 4000, South Africa

Supplementary Information
Figure S1: $^{13}$C-NMR spectra of ii-a in DMSO-d$_6$

Figure S2: $^1$H-NMR spectra of ii-a in DMSO-d$_6$
Figure S3: $^1$H-NMR spectra of ii-b in DMSO-$d_6$

Figure S4: $^{13}$C-NMR spectra of ii-b in DMSO-$d_6$
Figure S5: $^1$H-NMR spectra of ii-c in DMSO-$d_6$

Figure S6: $^{13}$C-NMR spectra of ii-c in DMSO-$d_6$
Figure S7: $^1$H-NMR spectra of ii-d in DMSO-$d_6$

Figure S8: $^{13}$C-NMR for ii-d in DMSO-$d_6$
Figure S9: $^1$H-NMR spectrum for ii-e in DMSO-d$_6$

Figure S10: $^{13}$C-NMR spectra of ii-e in DMSO-d$_6$
Figure S11: $^1$H-NMR spectra of ii-f in DMSO-d$_6$

Figure S12: $^{13}$C-NMR spectra of ii-f in DMSO-d$_6$
Figure S13: IR spectrum of ii-a

Figure S14: IR spectrum of ii-b
Figure S15: IR spectrum of compound ii-d

Figure S16: IR spectrum for ii-e
Figure S17: IR spectrum for ii-f.