

This dataset contains:

Analytical characterisation of the new ligand and complex salts (CHN microanalysis)

^1H and ^{13}C NMR spectra of the new organic ligand *L* (raw data and plotted spectra).

Electrospray mass spectra (plotted spectra).

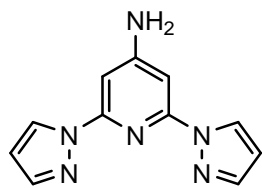
X-ray Crystallographic data:

- Structure of bpp^{NH_2} (CCDC 1569541).
- Structure of $L \cdot \frac{1}{4}\text{H}_2\text{O}$ (CCDC 1569546).
- Structures of $\mathbf{1}[\text{BF}_4]_2 \cdot \text{Me}_2\text{CO}$ (CCDC 1569542-1569543).
- Structures of $\mathbf{1}[\text{ClO}_4]_2 \cdot \text{Me}_2\text{CO}$ (CCDC 1569544-1569545).

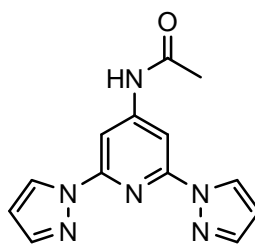
X-ray powder diffraction data (measured and simulated).

Solid state magnetic susceptibility measurements (raw and processed data).

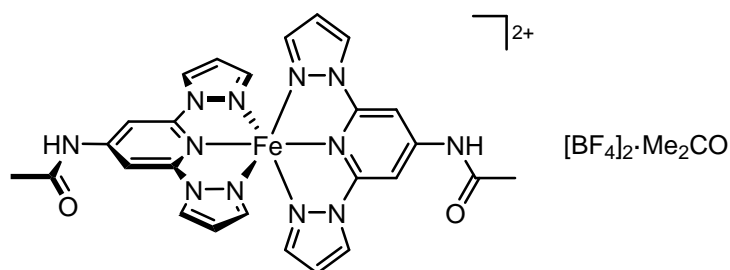
Compounds prepared during this study



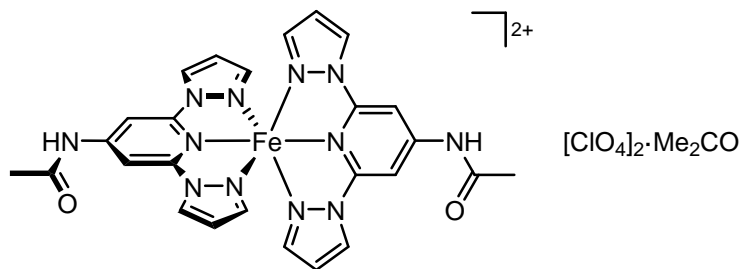
4-Amino-2,6-di(pyrazol-1-yl)pyridine
 $C_{11}H_{10}N_6$
bpp^{NH2}



N-[2,6-di(pyrazol-1-yl)pyrid-4-yl]acetamide
 $C_{13}H_{12}N_6O$
L



Bis-(*N*-[2,6-di(pyrazol-1-yl)pyrid-4-yl]acetamide)iron(II) ditetrafluoroborate acetone solvate
 $[FeL_2][BF_4]_2 \cdot Me_2CO$
 $C_{29}H_{30}B_2F_8FeN_{12}O_3$
1[BF₄]₂ · Me₂CO



Bis-(*N*-[2,6-di(pyrazol-1-yl)pyrid-4-yl]acetamide)iron(II) ditetrafluoroborate acetone solvate
 $[FeL_2][ClO_4]_2 \cdot Me_2CO$
 $C_{29}H_{30}Cl_2FeN_{12}O_{11}$
1[ClO₄]₂ · Me₂CO