Electronic Supporting Information

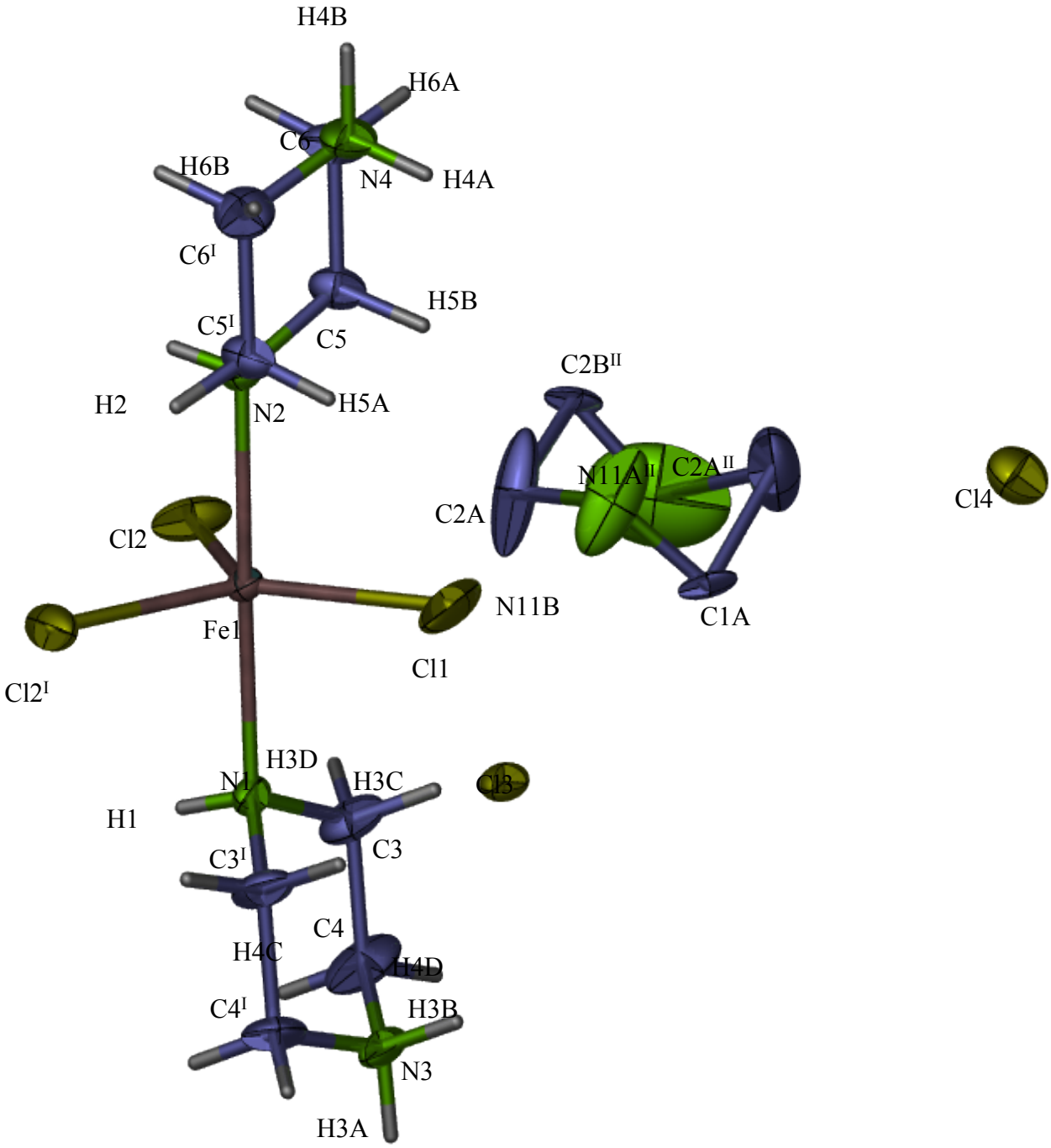

Figure S1: Crystal Structure of the complex $[FeCl_3(Hpipz)_2](Hpipz)Cl_2$ (**4**); H-atom labels other than asymmetric unit omitted for clarity, only one focal point of disordered piperazine molecule displayed (C1A, C2A, N11B, $C2B^{II}$, $C1B^{II}$, $N11A^{II}$); Symmetry operations: I: x, 0.5-y, z; II: x, 1.5-y,z

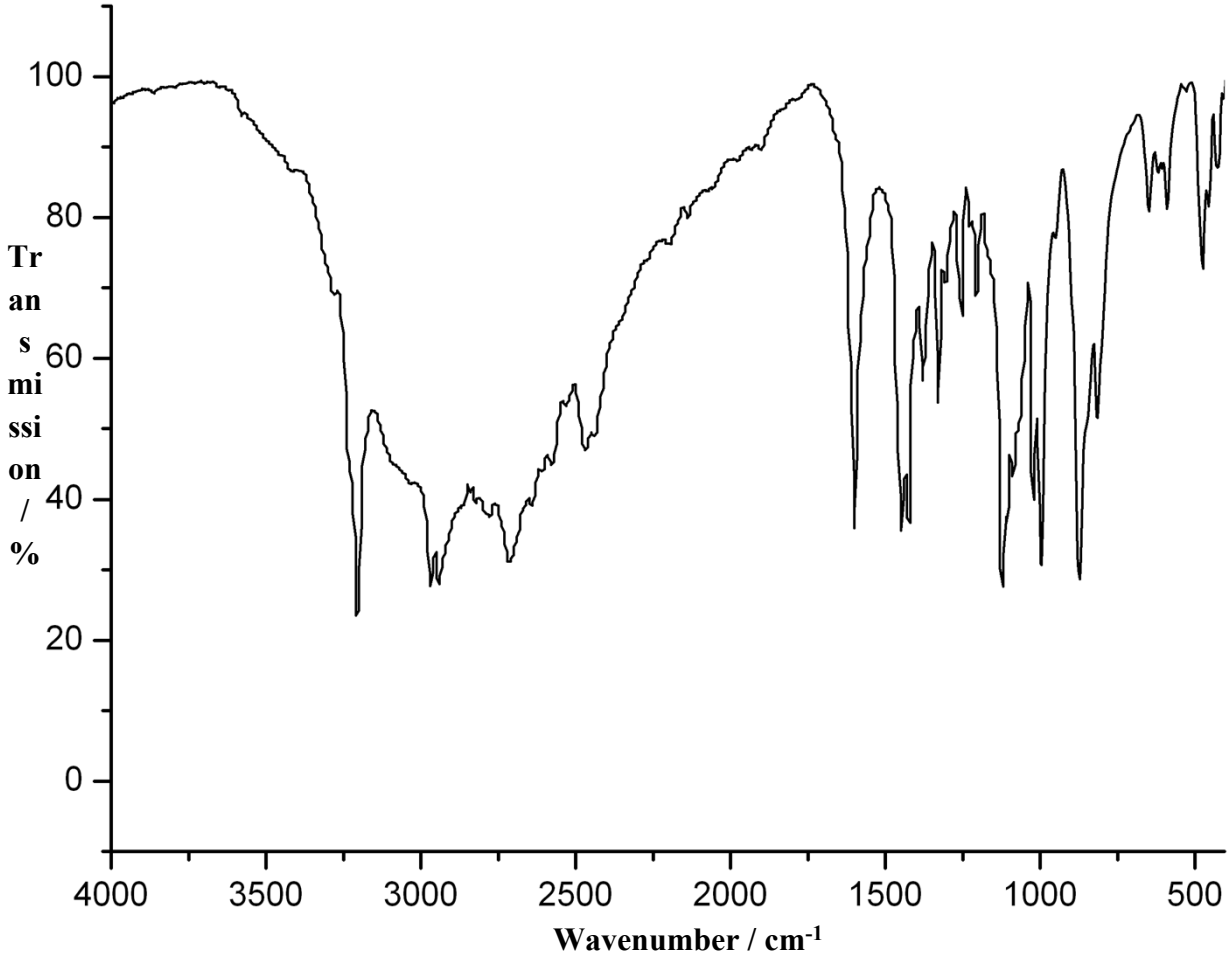

Figure S2: MIR-spectrum of the bulk product obtained from the thermal conversion of the complex $[FeCl_3(Hpipz)(pipz)]$ (**3**) into framework $^3{}_\infty[FeCl_2(pipz)]$ (**1**) and byproduct $[FeCl_3(Hpipz)_2](Hpipz)Cl_2$ (**4**) at 210 °C

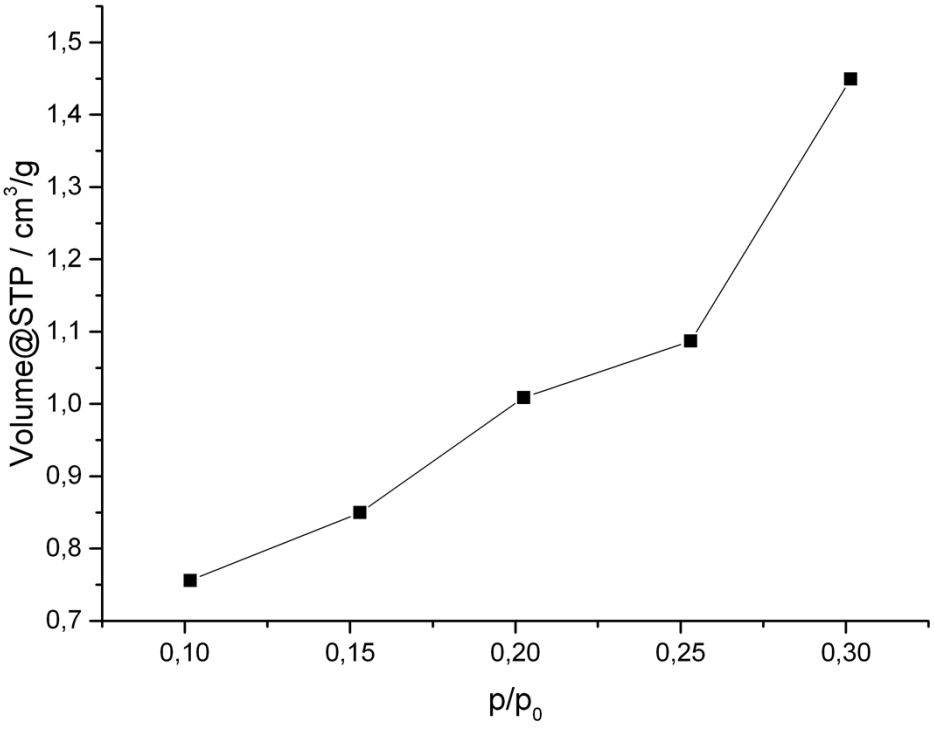

Figure S3: BET-isotherm of N_2 adsorption (77 k) on framework **1**. The compound is dense, exhibiting an uptake of only 1,4 cm³/g N_2 at p/p0 = 0,3 and s_{BET} of 5 m² (equilibration time: 45 min.).