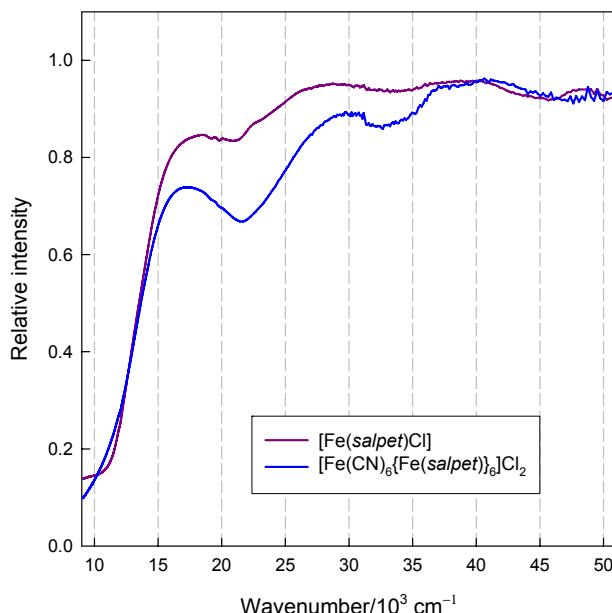
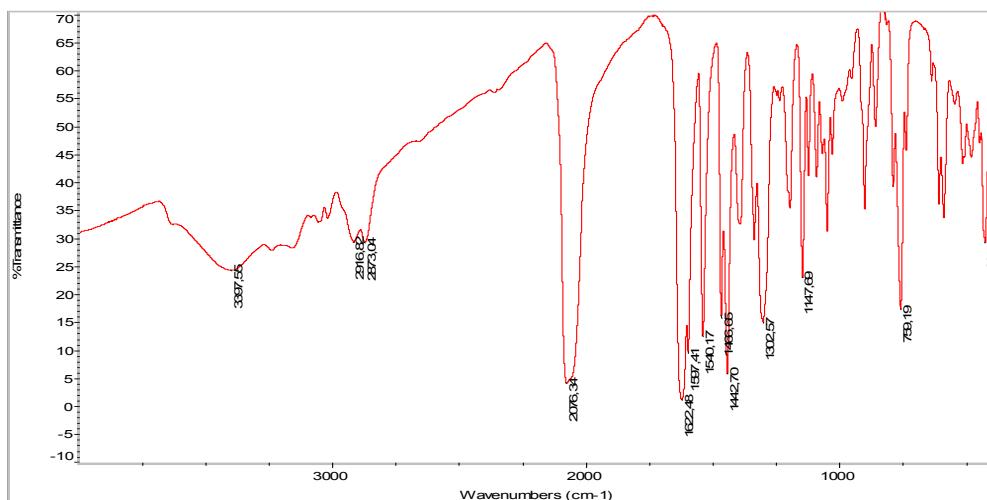


**Supplementary material**

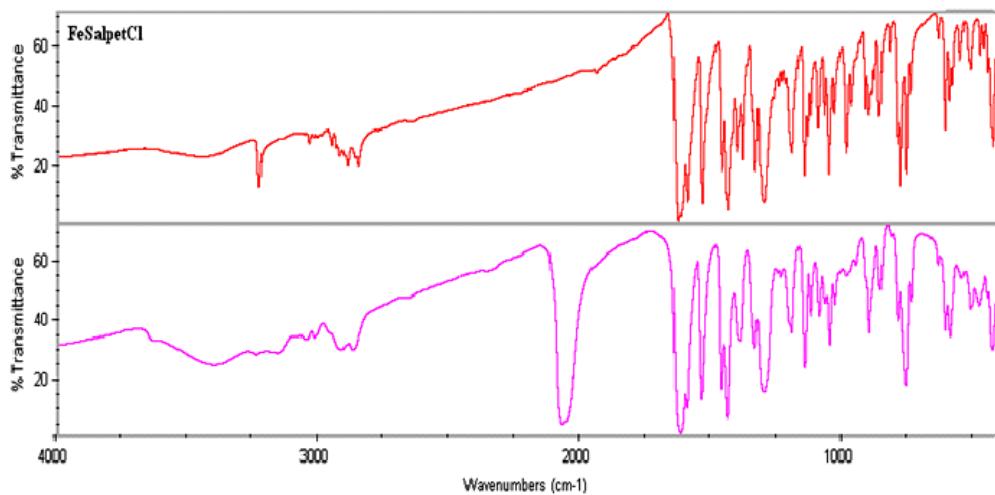
**A. Electron UV-VIS and infra-red spectra for **1** = [{Fe<sup>II</sup>(CN)<sub>6</sub>} {Fe<sup>III</sup>(salpet)<sub>6</sub>}]**Cl<sub>2</sub>**.**



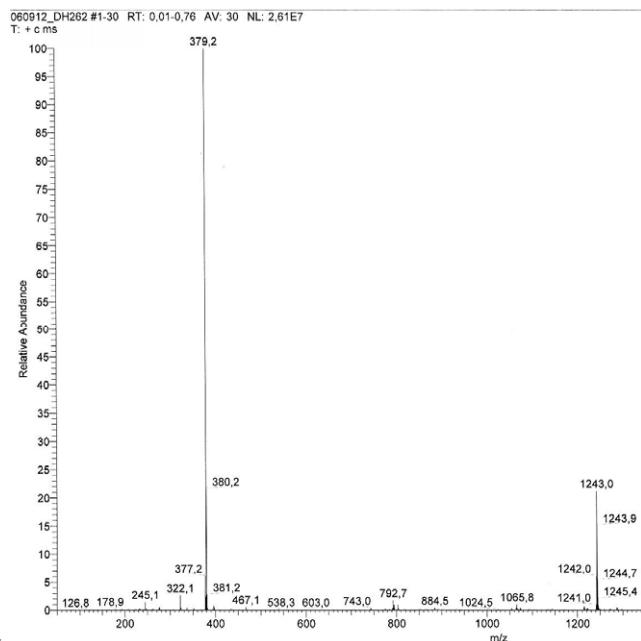
**Fig. S1.** Electron spectra of salpet-containing complexes [Nujol mull (Analytical Jena, Specord 200), 10000 – 50000 cm<sup>-1</sup>]



**Fig. S2.** MID-IR spectrum of **1** [KBr pellets (Nicolet, Magna FTIR 750), 4000 – 400 cm<sup>-1</sup>]



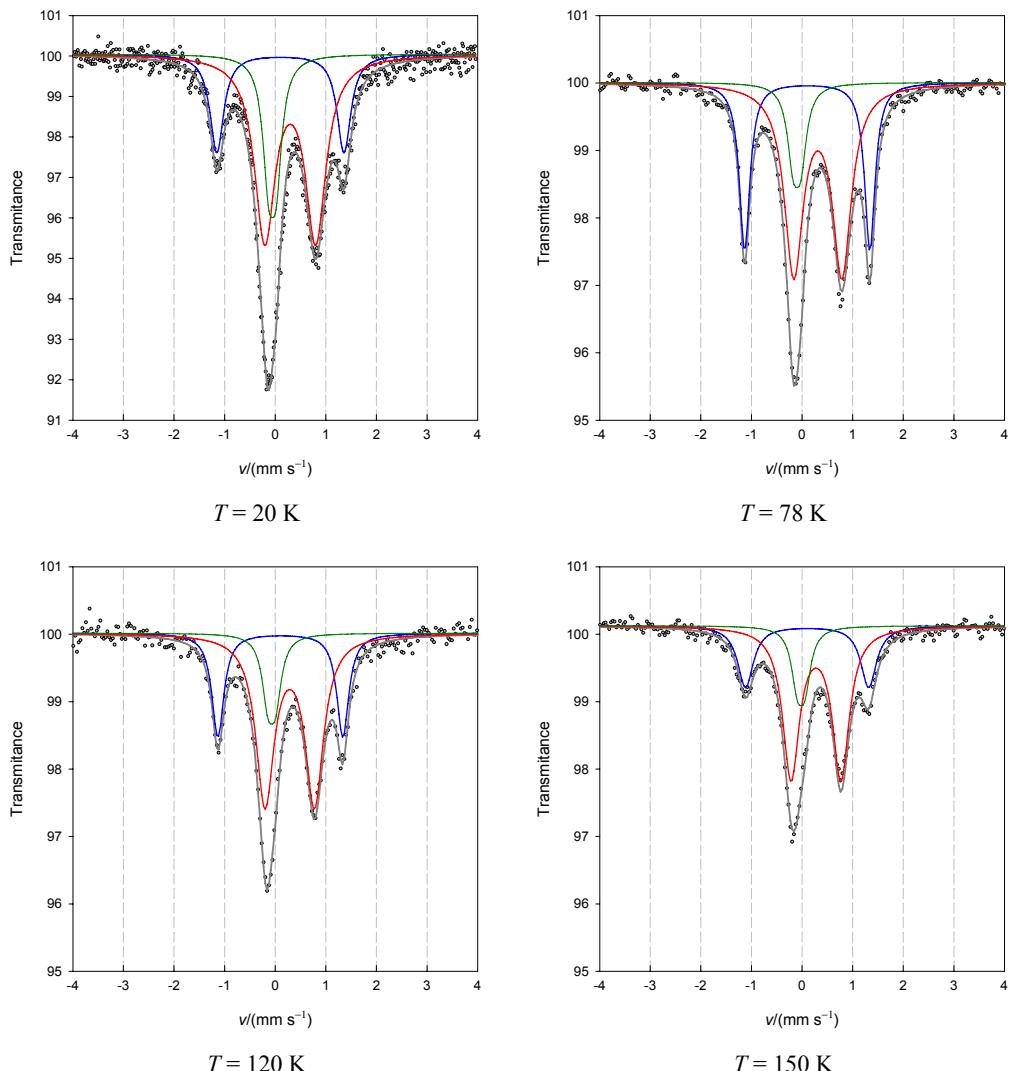
**Fig. S3.** MID-IR spectrum of **1** and its comparison with the mononuclear precursor [Fe(Salpet)Cl]

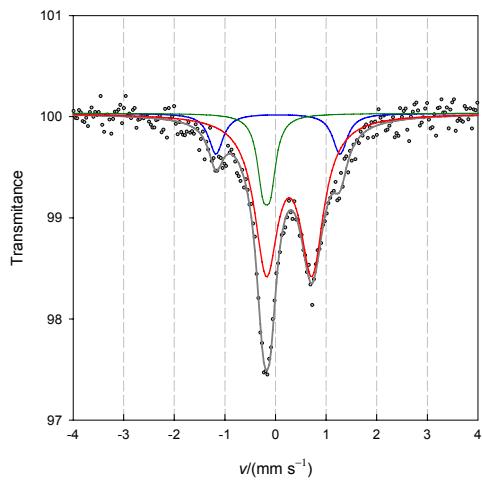


**Fig. S4.** ESI-mass spectra. The heptanuclear complex shows the molpeak in:  $m/z (=K^{2+}/2)$ : 1244 g mol<sup>-1</sup> which matches the composition  $[K^2Cl_2]$ ; the molar mass of  $[K^{2+}]$  is 2488 g mol<sup>-1</sup>;  $K^{2+}$  is the heptanuclear molecular dication  $\{\text{Fe}^{II}(\text{CN})_6\}\{\text{Fe}^{III}(\text{salpet})_6\}_6^{2+}$ . Molpeak  $m/z (=L^+/1)$ : 379.2 g mol<sup>-1</sup> is exactly the  $L = [\text{Fe}^{III}(\text{salpet})]^+$  fragment.

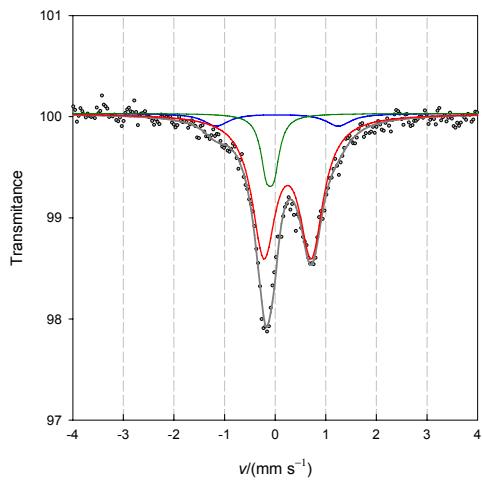
<sup>10</sup>

**B. Deconvolution of the Mössbauer spectra for 1**

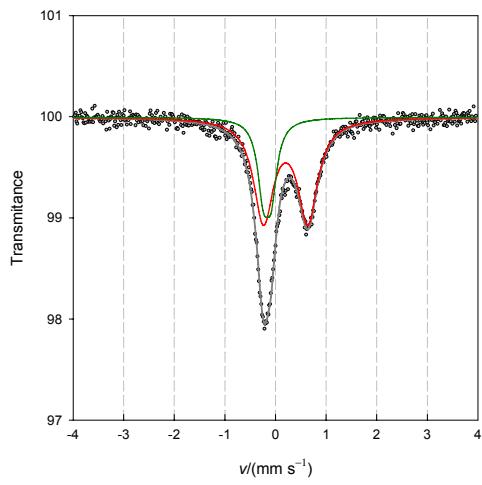




$T = 180\text{ K}$



$T = 200\text{ K}$



$T = 300\text{ K}$

**C. Selected interatomic distances**

	Fe2	Fe3	Fe4
Fe <sup>II</sup> -C(cyanide)	1.879(9)	1.888(8)	1.932(10)
Fe <sup>III</sup> -N(cyanide)	2.058(9)	2.033(7)	2.013(10)
Fe <sup>III</sup> -O(phenolate)	1.897(7)	1.960(6)	1.823(10)
	1.947(7)	1.960(5)	1.863(10)
Fe <sup>III</sup> -N(amine)-NH-	2.161(9)	2.157(7)	2.020(13)
Fe <sup>III</sup> -N(imine)-N=C-	2.028(12)	2.086(9)	1.832(15)
	2.034(10)	2.110(8)	1.924(15)

**Formatted Table**

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