

Table S1. IR spectra of parent components and salts **1** and **2**.

	Components				(Fe ^I Pc ⁻)(TMP ⁺)· 0.5C ₆ H ₁₄ (1)	(Co ^I Pc ⁻)(TMP ⁺) (2)
Fe^{II}Pc	434w 515w 571w 642w 731s 754m 779m - 874w 981w 1001w - 1084s 1119s 1163w - 1288m 1329s 1422m 1467w -				441w 517w 568w 640w 731s 751s 782w* 801m 875w - 1003w 1072m 1083s* 1116s 1164m 1264s 1293m 1329s 1421s 1466w 1497s	
Co^{II}Pc		435w 518w 573w 642w 735s 756m 781w - 876w 913w 985w 1002w 1090s 1121s 1165m 1262w 1289s 1333s 1426m 1470w				- - - - 735s 754m - 804m 872w - 985w 1004m 1092s* 1120s* 1165m 1262m 1293w 1333w 1426m 1464m*
TMP⁺			(TMP ⁺)(1) 782m 895s 923s 967s 1008m 1042m 1086m 1123m 1200m 1478s		782w* - 916w 966w - 1045w 1083s* - - 1475w	- - 920w 966w - - 1092s* 1120s* - 1464m*
C₆H₁₄				722s 758w 882m 1065m 1342m 1373s 1460s	712w - - - - - 1461w	

w- weak, m- middle, s- strong intensity, sp. – split band, *- the bands coincide.

IR-spectra

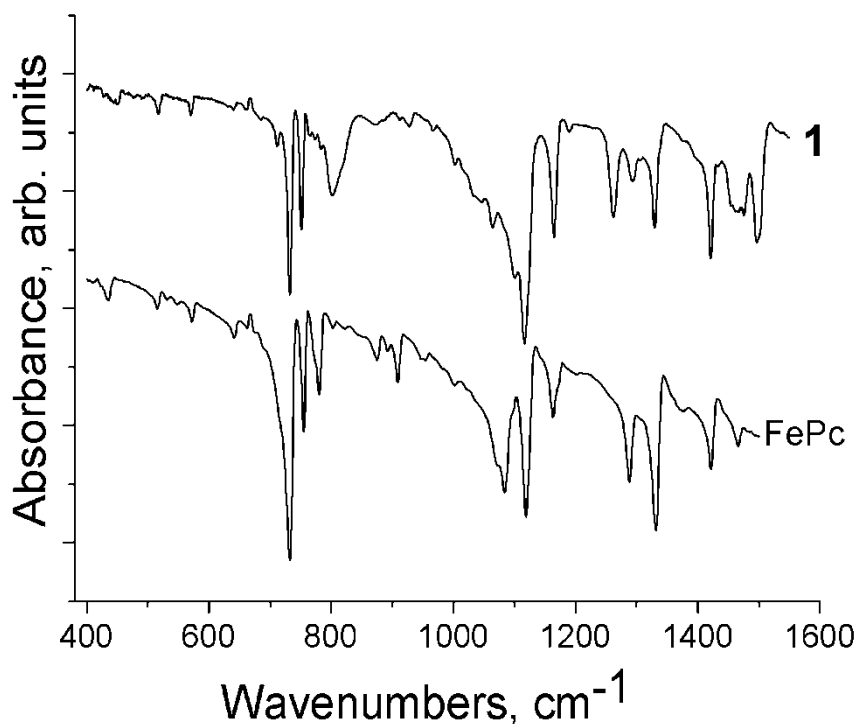


Figure 1S. IR-spectra of starting Fe^{II}Pc (bottom spectrum) and (Fe^{II}Pc⁻)(TMP⁺)·0.5C₆H₁₄ (**1**) (upper spectrum) in the 400-1500 cm⁻¹ range in KBr pellet. Spectrum of **1** was measured in anaerobic conditions.

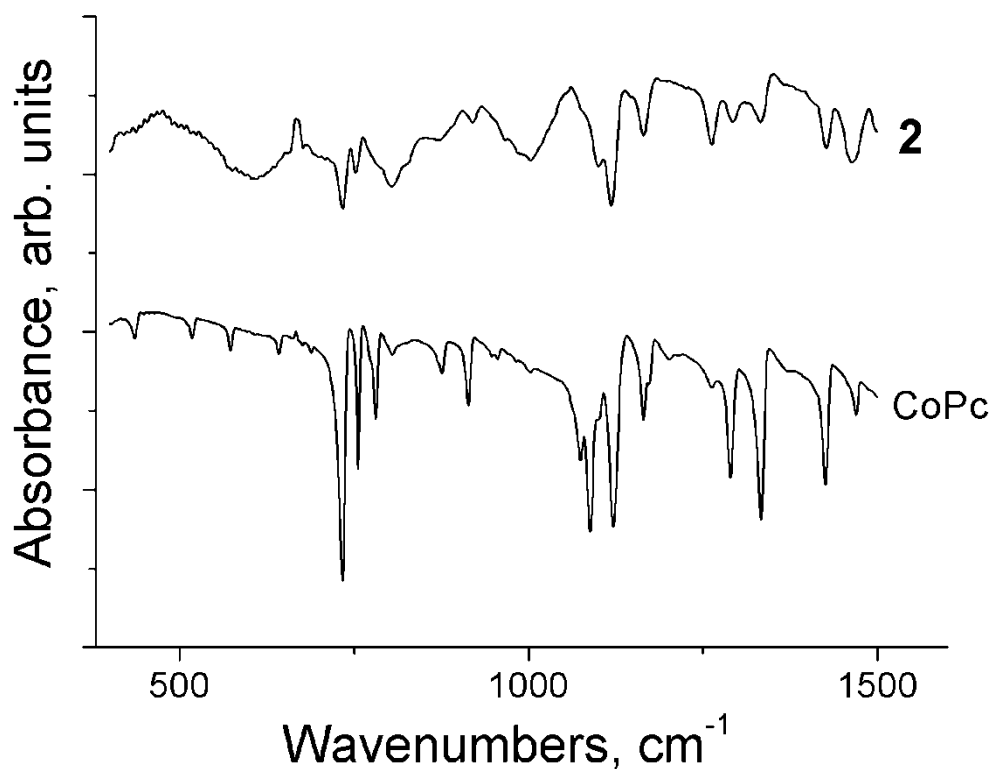


Figure 2S. IR-spectra of Co^{II}Pc (bottom spectrum) and (Co^{II}Pc⁻)(TMP⁺) (**2**) (upper spectrum) in the 400-1500 cm⁻¹ range in KBr pellet. Spectrum of **2** was measured in anaerobic conditions.

EPR spectra

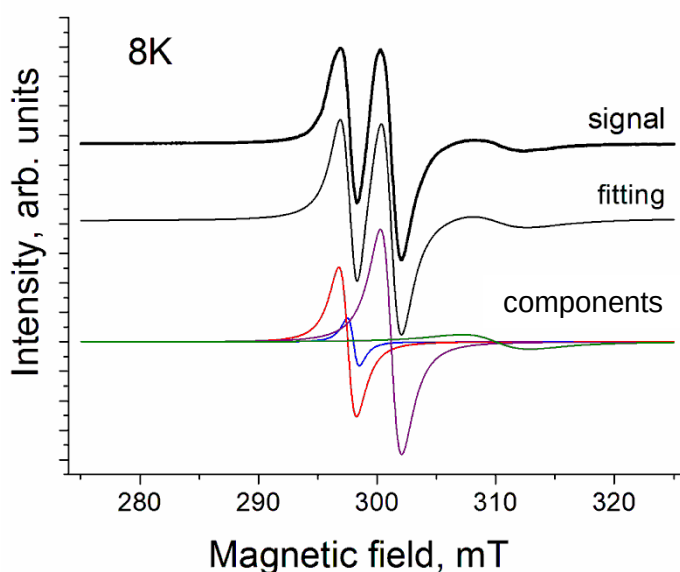


Figure S3. EPR spectrum of quenched sample of **1** at 8K. Below is shown the fitting of the signal by four Lorentzian lines: $g_1 = 2.1713$ and the linewidth (ΔH) of 1.47 mT, $g_2 = 2.1676$ ($\Delta H = 1.00$ mT), $g_3 = 2.1450$ ($\Delta H = 1.76$ mT), and $g_4 = 2.0837$ ($\Delta H = 5.60$ mT).

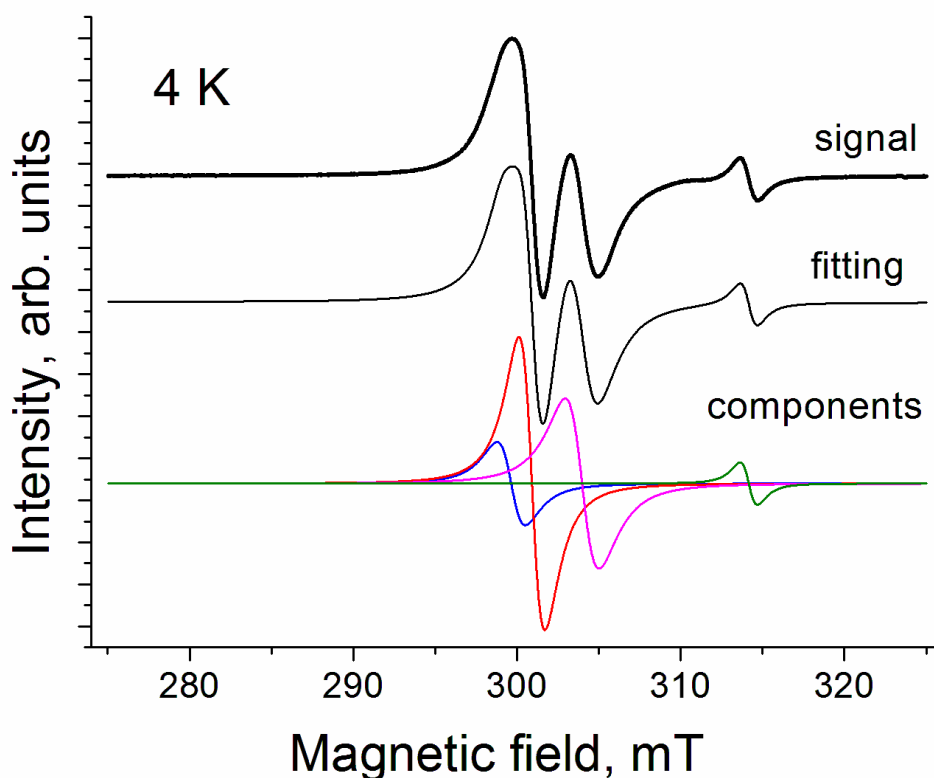


Figure S4. EPR spectrum of slowly cooled phase of **1** at 4 K. The fitting of the signal by four Lorentzian lines is shown below: $g_1 = 2.1559$ and the linewidth (ΔH) of 1.73 mT, $g_2 = 2.1469$ ($\Delta H = 1.58$ mT), $g_3 = 2.1252$ ($\Delta H = 2.07$ mT), and $g_4 = 2.0563$ ($\Delta H = 1.05$ mT).