Supporting information.

IR- spectra. **Table S1.** IR-spectra (cm^{-1} in KBr) of starting compounds, **1** and **2**.

Components	Cp^*_2Cr	H_3TPCor	$(Cp^*_2Cr^+)(H^+)(H_2TPCor^{\bullet 2-})\cdot C_6H_4Cl_2$ (**1**)	$\{crypt[2,2,2](Na^+)\}(H_2TPCor^-)\cdot 0.5C_6H_4Cl_2$ (**2**)
Corrole		663m 669w 700s 722w 752s 764m 788s 819w 875w 964m 987w 1011w 1045w 1062w 1176w 1224w 1236w 1263w 1286w 1308w 1338w 1377w 1409w 1439w 1465w 1495m 1519w 1551w 1596m 3030w 3051w 3371w 3404w	662w 668w* 700s 714w 721w 754s - 795s - 885w 958m - 1003m 1014w 1053m 1073m* 1177w 1225w 1236w 1265m* - - 1329m 1378m* 1418w* 1436m - 1494m - 1556s 1576s 1595m 3027w 3057w - -	660w 668w* 701s 715w 753s 762m 788w 820m* 871w 970w 987w 1003m 1045w 1073w* 1174w 1222w 1231w 1266w 1285w 1302m 1324m 1375w 1417w 1435w 1466m 1495m 1521w* 1546w 1595m 3030w 3057w - -
Cation	Cp^*_2Cr 419w 585w 1022s 1068w 1262w 1316s 1375s 1414w 1423m 1448w 1634m 2852w 2899w 2955w		Cp^*_2Cr - - 1020m 1073m* 1265m* - 1378m* 1418w* 1423w 1441m - 2852w 2911w 2968w	cryptand(Na^+) 820m* 850m 927m 939w 1073w* 1088s 1099s 1128m 1356m 1521w* 2800w 2897w 2957w
$C_6H_4Cl_2$			668w* 1034s 1456m	668w* 1035m 1456m

* Bands are overlapped, w-weak intensity, m – middle intensity, s – strong intensity.

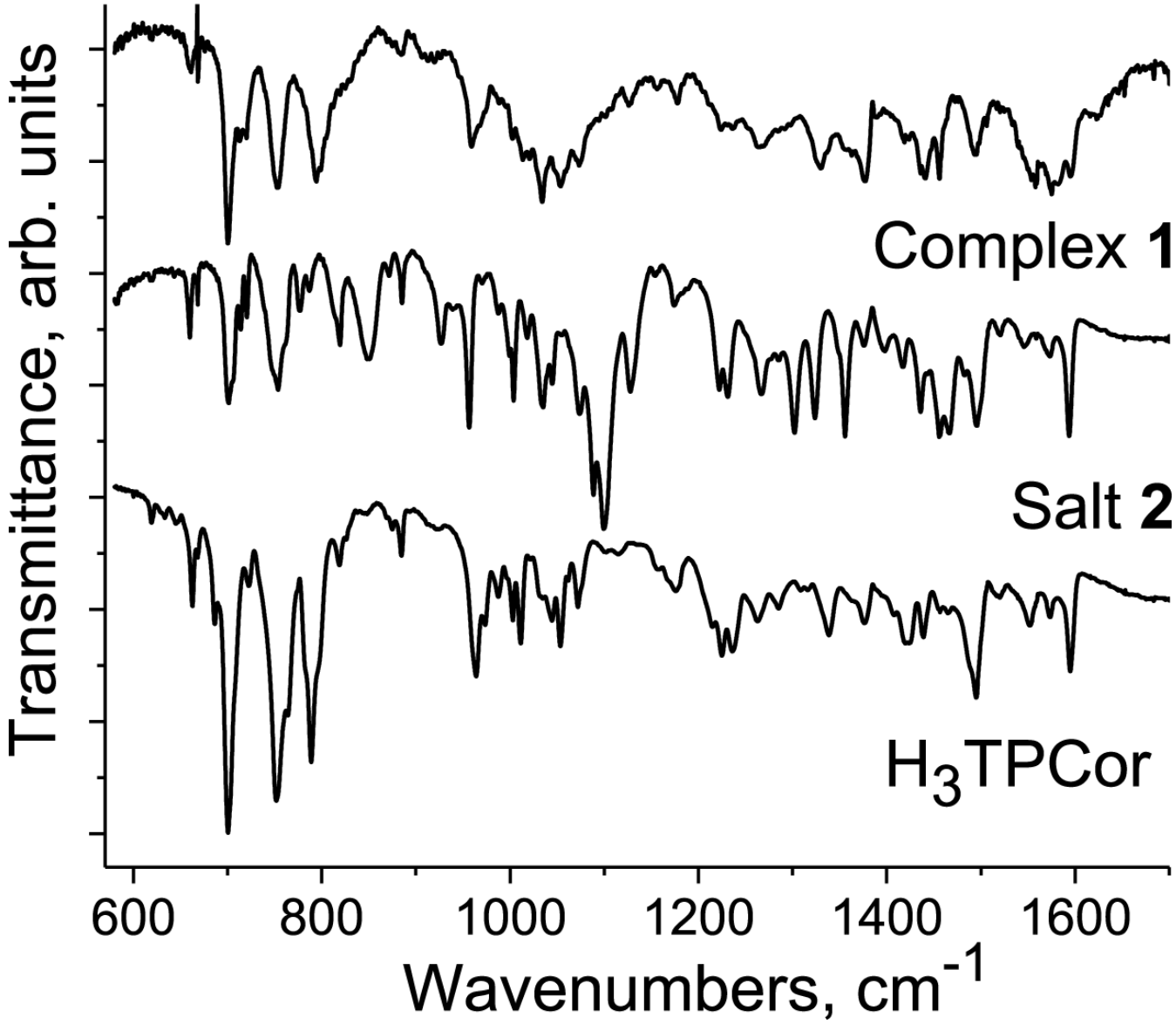

Fig. S1. IR spectra of starting H_3TPCor; salt {cryptand[2,2,2](Na^+)}(H_2TPCor^-)·0.5$C_6H_4Cl_2$ (**2**) with deprotonated H_2TPCor^- anions; complex ($Cp^*_2Cr^+$)(H^+)·($H_2TPCor^{\bullet 2-}$)·$C_6H_4Cl_2$ (**1**) with the $H_2TPCor^{\bullet 2-}$ radical dianions. Spectra were measured in KBr pellet prepared in anaerobic conditions.

Crystal structures

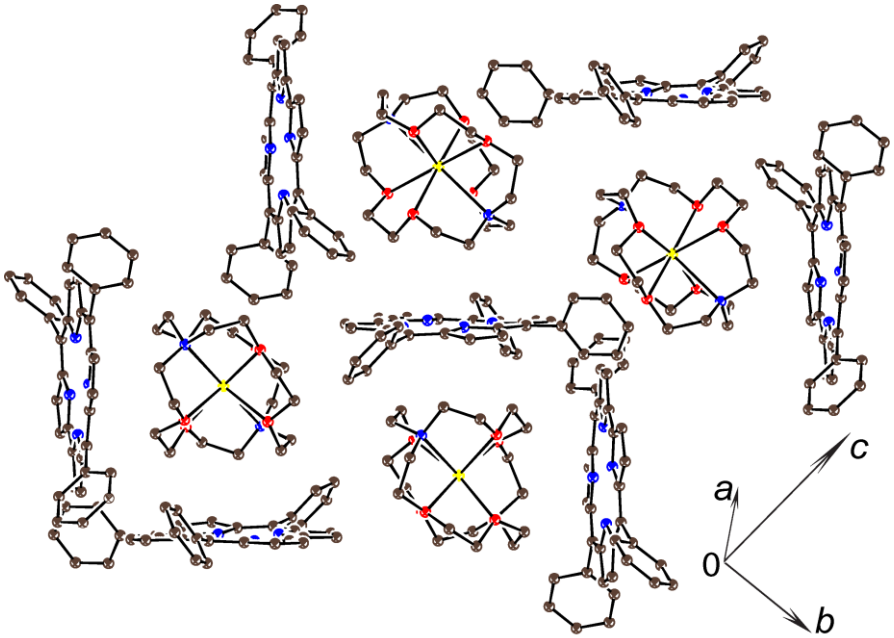

Fig. S2. Crystal structure of {cryptand[2,2,2](Na$^+$)}(H_2TPCor$^-$)·0.5$C_6H_4Cl_2$ (**2**) with deprotonated H_2TPCor$^-$ anions. Solvent $C_6H_4Cl_2$ moleculeas are not shown for clarity.

Theoretical calculations.

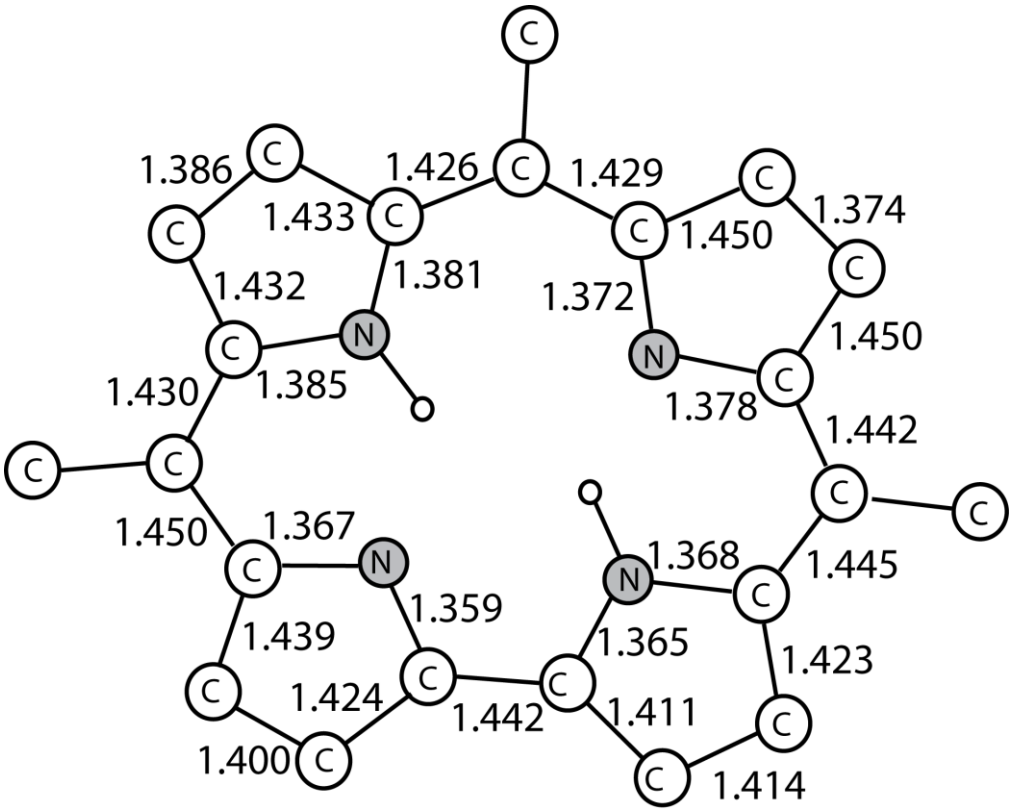

Fig. S3. Calculated structure of the $H_2TPCor^{\bullet 2-}$ radical dianion.

Data of EPR measurements.

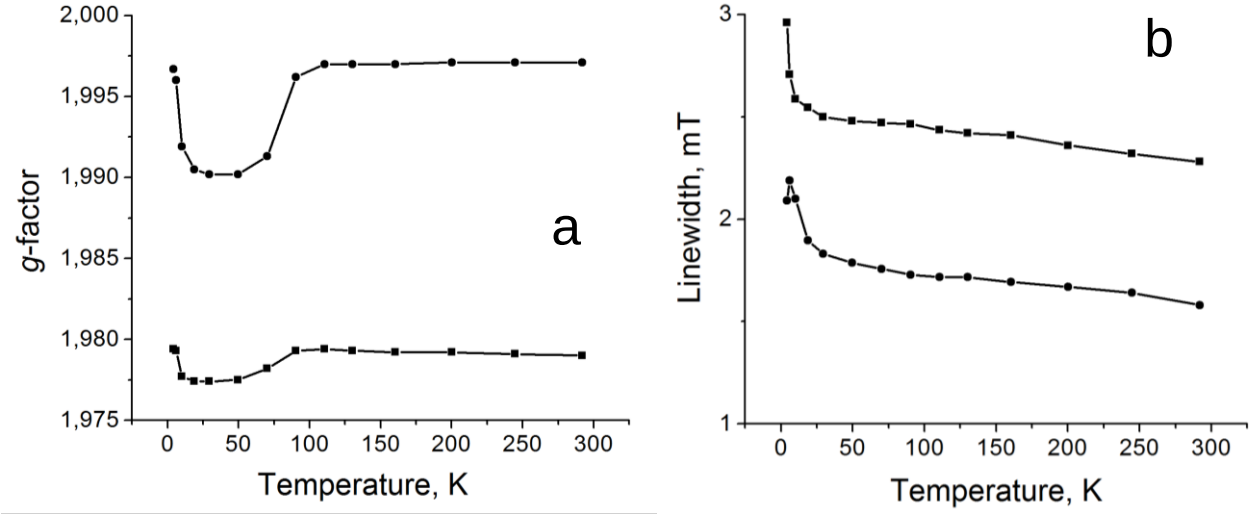

Fig. S4. Temperature dependencies of *g*-factors (a) and linewidths (b) of two EPR signals from polycrystalline **1** attributed to the radical $H_2TPCor^{\bullet 2-}$ dianions in the 4.2-292 K range.