

Supporting information.

Table S1. IR spectra of the starting compounds and complex **1**.

Components	Ni(dppp)Cl ₂	C ₇₀	<i>o</i> -C ₆ H ₄ Cl ₂	1
Ni(dppp)	476w 513s 543w 667m 695s 702s sp 713w 743s 818w 917w 945m 999w 1029w 1070w 1098s 1149m 1186w 1244w 1315w 1334w 1408w 1433s 1453w 1483m			478w 511m 540w 668m 692s 700m sp - 745m* 826w 909w 945w 999w - - 1099s 1151w 1184w 1252w 1325w 1340m 1409w 1431s* 1454w* 1480w
C ₇₀		457w 534s 564m 576s 642m 673m 794m 1132w 1413w 1429s		456w 534m 564w 573w 579w 640w 673w 793w - - 1431s*
<i>o</i> -C ₆ H ₄ Cl ₂			657w 748s 1030m 1122m 1453m	- 745m* 1034w - 1454w*

sp - splitted band

* - the bands are coincided.

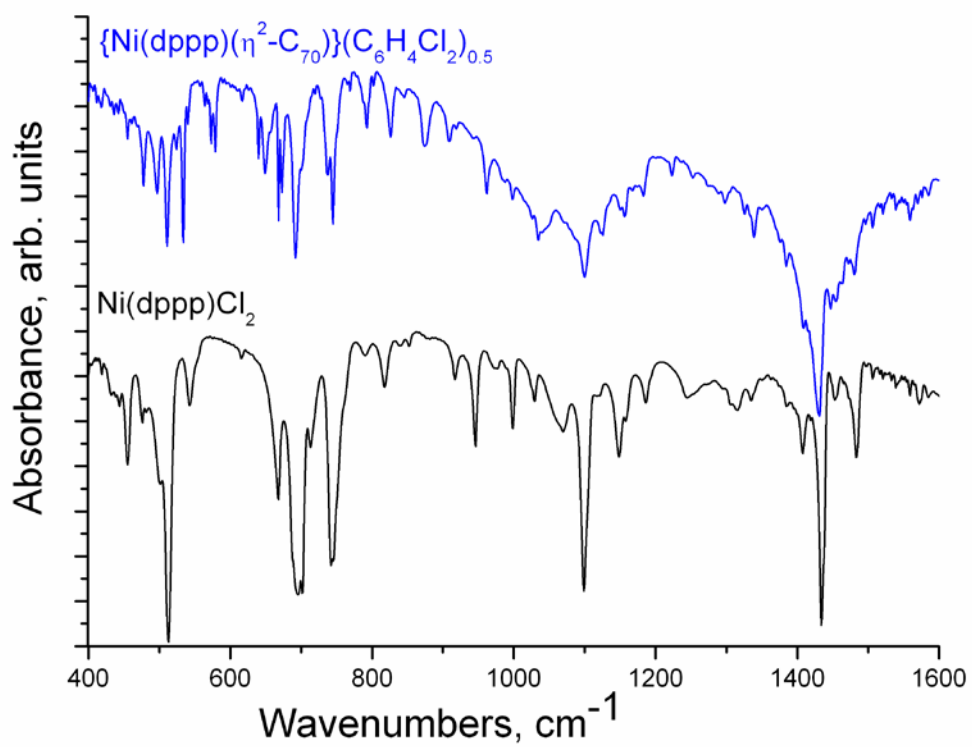


Fig. 1S. IR spectra of $\text{Ni}(\text{dppp})\text{Cl}_2$ and complex **1** in KBr pellet.