Supporting Information

For

Synthesis and X-ray characterization of [RhCl(C₂H₄)(PiPr₃)]₂.

Multinuclear NMR and DFT investigation of its solid state and solution reaction with dihydrogen. The ethene and propene hydrogenation by the solid Rh-hydrides


Figure S1. ³¹P NMR spectra of the compound [RhCl(H)₂(PiPr₃)]₂ (2) recorded in a range of temperature between 293 K and 198 K.

Figure S2. 25 isomeric structures that are possible for the complex [RhCl(H)₂(PiPr₃)]₂

Figure S3. 4XC autoclave equipped with a system for the continuous withdrawal of gaseous or liquid samples.
Figure S1. $^{31}$P VT NMR spectra of the compound [RhCl(H)$_2$(PiPr$_3$)$_2$]$_2$ (2) recorded in a range of temperature between 293 K and 198 K.
Figura S2. 25 isomeric structures that are possible for the complex [RhCl(H)(PPr₃)]₂
Figure S3. 4XC autoclave equipped with a system for the continuous withdrawal of gaseous or liquid samples.